



EasyLyte downlights are adaptable, and flexible for your changing project needs. EasyLyte is your best choice without sacrificing ease of installation or product quality. Ideal for use in open office, healthcare, design build, and other light commercial applications.

Complete unit = Frame + Light Engine/Trim

Project: _____

Location: _____

Cat.No: _____

Type: _____

Qty: _____

Notes: _____

Frame

example: 4RN

Series	Aperture	Installation	Options
4	R		
4 Uniframe 4-inch	R Round	N New construction (Non-IC) R Remodeler (Non-IC) A AirSeal (IC) ¹	— Universal 120/277/347V ² LC Chicago Plenum ³ EM6 Emergency, 6W Self-Test/Self-Diagnostic ^{3,4} 3 347V (for non-0-10v configurations) RADIO Integral Interact Pro RF sensor (120/277/347V) (enables wireless connected lighting control) ^{3,5} requires above ceiling access

Light Engine / Trim

example: Z4RDL20835WOCZ10U

Series	Lumen	CRI/CCT	Beam	Style	Reflector	Flange	Dimming	Voltage
Z4RDL			W					
Z4RDL EasyLyte 4-inch Round downlight	05 500lm 10 1000lm 15 1500lm 20 2000lm 25 2500lm	827 80CRI / 2700K 830 80CRI / 3000K 835 80CRI / 3500K 840 80CRI / 4000K 850 80CRI / 5000K	W Wide	O Open S Step baffle	WH White BK Black DB Dark Bronze CD Clear diffuse	WH White BK Black	Z10 0-10V 1% L Lutron LDE1 EcoSystem (fade-to-black) E ELV ⁶ P Power over Ethernet (PoE)	U 120/277/347V 3 347V ^{7,8} (0-10v only) 1 120V E Ethernet 48 V DC

Accessories

SBA	Interact Ready System Bridge Accessory with integral occupancy and daylight sensor (compatible with all 0-10V options, see SBA spec sheet) ⁹
CAEM6	Field installable Bodine BSL6 6W battery pack with self-test/self-diagnostic for use with new construction (N) frames, 120-277V
AMS	ActiLume multi-sensor (optional accessory for PoE configurations)
CAEM6TSCP	Surface mount cover plate to remote mount test switch for EM6 frame option.

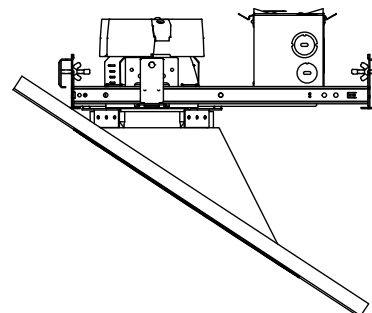
Sloped Ceiling

example: 7920MD

Series	Degree of Slope
7920 Sloped Ceiling Adapter 4"	MC 5° MD 10° ME 15° MF 20° MG 25° MH 30°

Sloped Ceiling Adapter Features

- Material: 16 ga. spun aluminum, matte white finish.
- Installation: Installs with standard recessed fixture in sloped ceilings without changing the vertical axis of the fixture or its lighting characteristics.
- Perforated Tabs (4): Provide temporary support for the slope ceiling adapter during installation.
- Locking Screws (4): Secure slope ceiling adapter to mounting frame of fixture.
- Support: Fixture must be supported by ceiling structure — not Slope Ceiling Adapter.



- There is a 2000lm (20) limit with 4" (4RA) IC housings.
- Universal 120-347V is for 0-10v (Z10) dimming configurations only. For 347V non-Z10 dimming, order 347V (3) frame with (U) light engine/trim.
- Interact Pro (RADIO), Emergency (EM6) and Chicago Plenum (LC) are only available with New construction (N) installs.
- EM6 option compatible with new construction (N) frame only. Order CAEM6TSCP ceiling mounting plate accessory for remote mounted test switch. EM6 option not compatible with Power over Ethernet or 347V configurations.
- Integral Interact Pro RF sensor enables network lighting control; to be specified with 0-10V light engines only.
- ELV (E) dimming is only compatible with 1000lm (10), 1500lm (15), 2000lm (20) configurations. Not compatible with 347V frame options.
- Specify standard UNV frame for use with 347V light engines.
- The 347V light engine voltage option is available only with Z10 dimming option.
For other dimming protocols order (U) light engine and 347V (3) frame.
- Requires IRT9015 IR remote & Interact Pro App for commissioning.

Z4RDL EasyLyte 4"

Round Downlight

Features

Optics

- Provides a 70° cutoff (physical and reflected)
- Wide beam distribution for general illumination
- Spun aluminum outer reflector with integral flange painted white
- Injection molded plastic trim inserts in splay and baffle options
- Reflectors available in painted clear diffuse, white, black and dark bronze

Quality of light

- Lumen Maintenance: L70 at 60,000 hours
- Color consistency: 3 SDCM
- 80 CRI minimum

Construction (New Construction)

- Galvanized stamped steel for dry / plaster ceilings.
- Pre-installed telescoping mounting bars (13" - 24")
- Frame accommodates C- channel, black iron, and 3/4" EMT for mounting distances greater than 24" between joists.
- Manufactured from 20 gage galvanized steel construction with rolled edge aperture to guide cutting tools for perfect hole cutting.

**Max ceiling thickness is 1.5" (38 mm).
Including PoE frame 4.88" (124 mm).**

Patented install Mounting frame

- Pre-installed mounting bars allow for fast and tool-less install into T-grid and hat channel ceilings
- Close-cut aperture design eliminates an undesired gap between ceiling material and reflector.
- Simple plug-and-play connection between frame and light engine from below the ceiling allows for:
 - Easy upgrades
 - Technology changes
 - Repairs and troubleshooting

Dimming

120/277V

- Advance 0-10V 1% dimming
- Lutron Hi-lume EcoSystem H Series 1% dimming

347V

- Integral 347V drivers available for 0-10v (Z10) light engine configurations with standard universal frames.
- For 347V and non-0-10v dimming, order (U) light engine and 347V (3) frame (includes step down transformer). Not compatible with ELV dimming.

Emergency

Remote ceiling mounted test switch. Accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch. See Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

Power over Ethernet

Powered via Philips PoE lighting controller: complies with FCC rules per Title 47 part 15 (Class A) for EMI / RFI (conducted & radiated). PoE lighting controller accessible from below ceiling.

Rated life: 60,000 hrs at 70% lumen maintenance based on IES LM-80-08 and TM-21-11.

Options and Accessories

Field Installed Emergency: Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

CAEM6: Field install EM6 kit with Bodine BSL6 6W battery pack with self-test/self-diagnostic, mounts to new construction frame. Includes ceiling plate for remote test switch.

CAEM6TSCP: Ceiling cover plate for remote mounted EM6 test switch. 1" (25mm) hole, 4 3/8" (109mm) x 2 3/8" (69mm) rectangular. Includes two mounting screws.

ENERGY STAR® exceptions

- 500lm configurations
- Black & Dark bronze finishes
- Power Over Ethernet drivers

Labels and Listings

- cULus listed for wet location
- ENERGY STAR® certified
- RoHS certified

Warranty



5 year limited warranty
Visit [Signify.com/warranties](https://www.signify.com/warranties)
for more information on Signify's
standard 5-year limited warranty
on complete luminaire systems.

Finishes



White

Brightest aperture when illuminated and provides the smoothest transition to most ceilings when off (only available with a white flange).



Black

Specular finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



Dark Bronze

Specular finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



Clear diffuse

Slightly diffuse clear finish that softens the light and reduces the mirror image effect with traditional aluminum specular finishes (only available with a white flange).

Z4RDL EasyLyte 4"

Round Downlight

interact

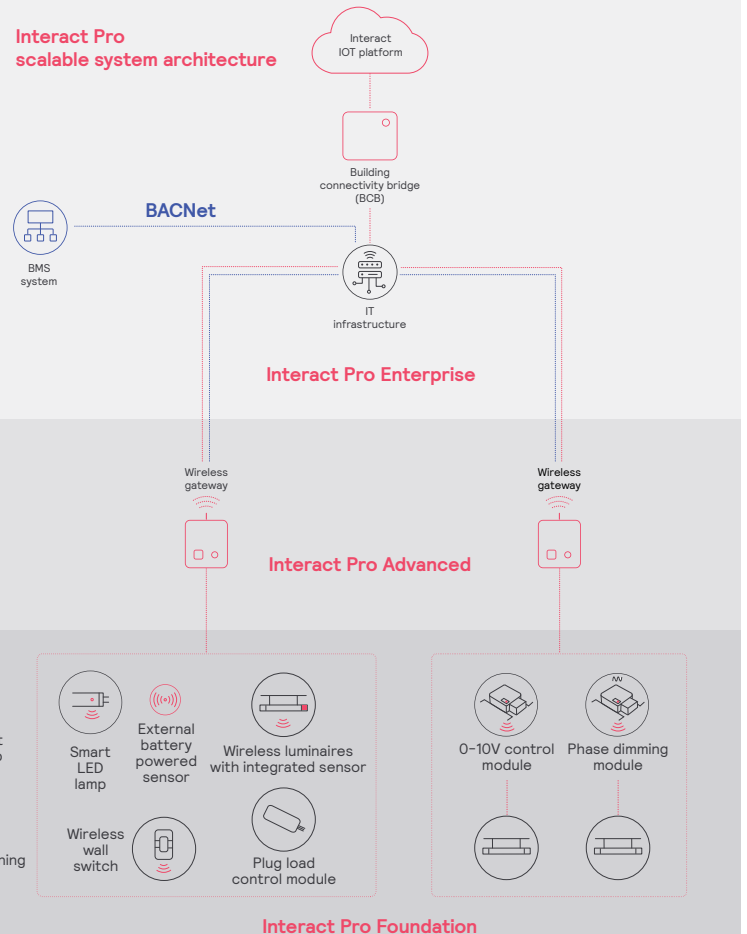
	Interact Pro scalable system		
	Foundation	Advanced	Enterprise
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDs	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16

Interact Pro scalable system architecture



Z4RDL EasyLyte 4"

Round Downlight

Wireless Controls Options

Interact Pro scalable sensor

(System Bridge Accessory with -CS option):

- CS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with:
 - UID8451/10 wireless dimmer switch
 - SWS200 wireless scene switch
 - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
 - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
 - Battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
 - Battery powered IP65 presence & daylight sensor OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem.

Interact Pro Enterprise

(System Bridge Accessory with -SB option):

- A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1) and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- SB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices.

Emergency Options (ER100)

(System Bridge Accessory with -ER100 option):

- Power Sensing (Factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

Radio only sensor (RADIO):

- Integral RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.

Wired Controls Options

Interact Office Wired (PoE):

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Supports advanced IoT Apps on Personal Control, Space Management, wayfinding, room/desk reservation and offers open APIs for light control and data exchange.
- PoE lighting controller is accessible from below.
- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.

- Optional integral emergency controller and battery pack provides 600lm nominal output.
- Test switch and indicator light mounted on side of chassis on one end.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, and 45-85% relative humidity.
- For more information on Interact Office Wired, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices.

Interact Office Wired (PoE), Static White:

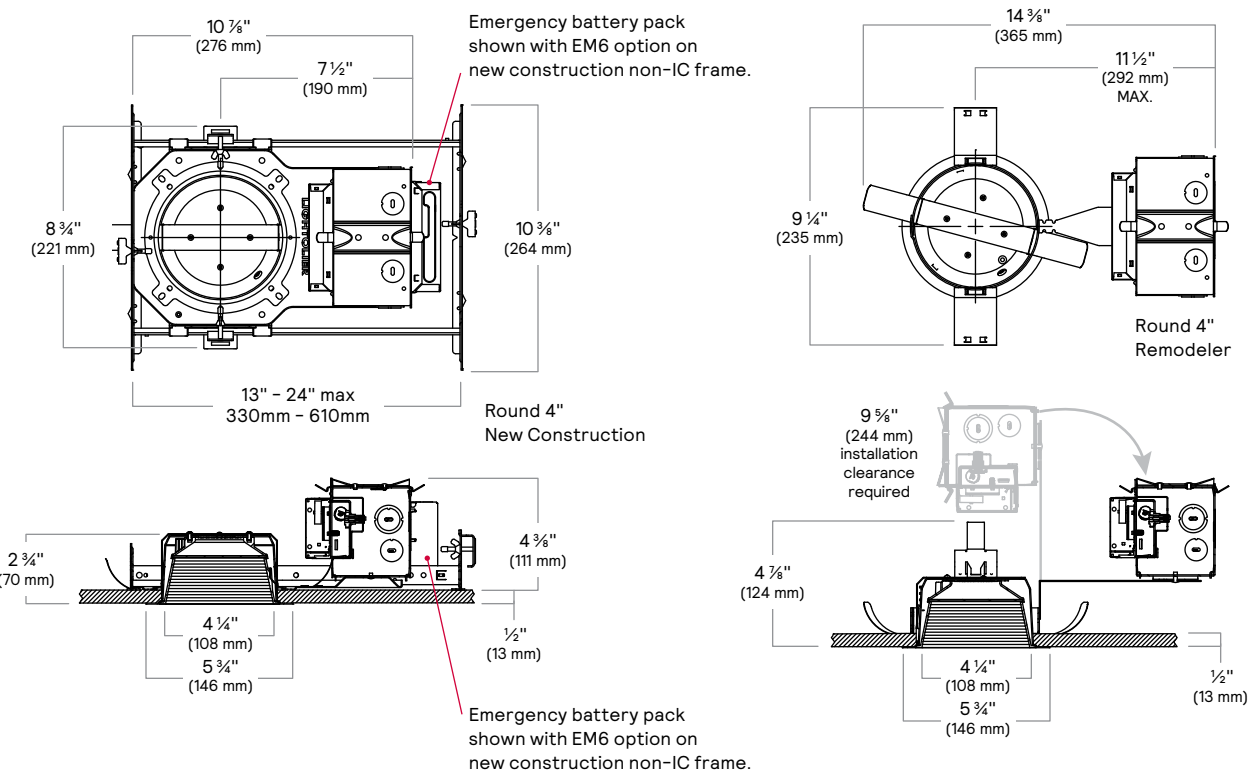
- A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.

- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible Zigbee Green Power wall dimmer and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Supports advanced IoT Apps on wayfinding, room/desk reservation and offers open APIs
- Requires compatible Interact Office Gateway and internet connectivity for commissioning.
- For more information on Interact Office Wireless, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices.

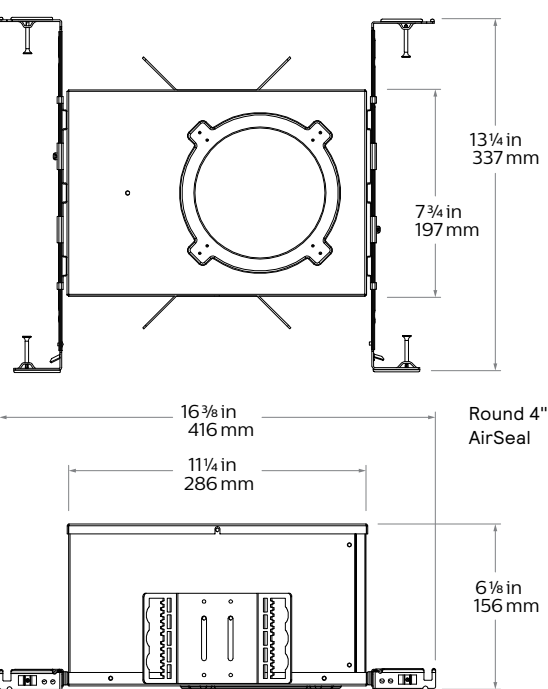
Z4RDL EasyLyte 4"

Round Downlight

Dimensions



AirSeal (A)



Electrical

All have an input frequency of 50/60Hz

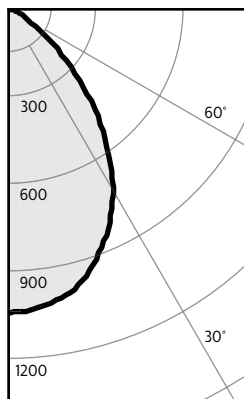
Light engine	Input volts	Input current	Input power
Z4•05•Z10U/3	120 V	0.06 A	7 W
	277 V	0.03 A	7 W
Z4•10•Z10U/3	120 V	0.12 A	11 W
	277 V	0.04 A	10 W
Z4•15•Z10U/3	120 V	0.13 A	15 W
	277 V	0.06 A	16 W
Z4•20•Z10U/3	120 V	0.18 A	21 W
	277 V	0.08 A	21 W
Z4•25•Z10U/3	120 V	0.22 A	26 W
	277 V	0.10 A	27 W

Z4RDL EasyLyte 4"

Round Downlight

Z4RDL20835WOBKZ10U • 20W LED, 80CRI, 3500K

Candela Curves



Angle	Mean CP	Lumens
0	1042	98
5	1032	
10	1008	
15	965	270
20	892	
25	809	370
30	705	
35	584	362
40	450	
45	317	244
50	192	
55	92	87
60	32	
65	5	9
70	2	
75	1	1
80	1	
85	0	0
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	42	5.5'
6'	29	6.6'
7'	21	7.7'
8'	16	8.8'
9'	13	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'		0.89
6'		0.58
7'		0.42
8'		0.35
9'		0.28

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling		80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR		Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	113	109	107	104	107	102	103	99	99	96	92
	2	106	100	96	92	98	91	95	89	92	87	83
	3	99	92	86	81	90	81	88	79	85	78	75
	4	93	84	78	73	83	72	81	72	79	71	68
	5	87	78	71	66	77	65	75	65	73	64	62
	6	82	72	65	60	71	59	69	59	68	58	56
	7	77	66	59	54	65	54	64	54	63	54	52
	8	72	61	55	50	61	50	60	49	59	49	47
	9	68	57	50	46	57	46	56	46	55	45	44
10	65	53	47	42	53	42	52	42	51	42	40	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	738	51.2%
0-40	1100	76.3%
0-60	1431	99.2%
0-90	1443	100.0%

Adjustment factors

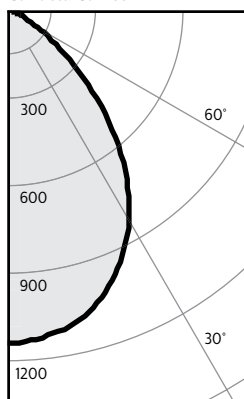
2500lm	125%
2000lm	100%
1500lm	74%
1000lm	52%
500lm	34%

Report: 1592GFR

Output lumens:	1443 lms	Efficacy:	72.1lm/w
Spacing Criterion:	1.1	CCT ³ :	3500 K
Beam Angle:	75°	CRI:	80 min
Input Watts ² :	20.0W		

Z4RDL20835WOCZ10U • 20W LED, 80CRI, 3500K

Candela Curves



Angle	Mean CP	Lumens
0	1136	107
5	1127	
10	1106	
15	1067	300
20	1002	
25	926	424
30	827	
35	707	439
40	570	
45	429	330
50	294	
55	181	166
60	106	
65	64	67
70	43	
75	27	29
80	15	
85	6	7
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	45	5.5'
6'	32	6.6'
7'	23	7.7'
8'	18	8.8'
9'	14	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'		0.89
6'		0.58
7'		0.42
8'		0.35
9'		0.28

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling		80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR		Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	112	108	105	102	106	101	102	97	98	94	90
	2	104	98	93	88	96	87	93	85	90	83	80
	3	97	89	82	77	87	77	84	75	82	74	71
	4	90	81	74	68	79	68	77	67	75	66	63
	5	84	74	66	61	73	61	71	60	69	59	57
	6	79	68	60	55	67	55	65	54	64	54	52
	7	74	62	55	50	61	49	60	49	59	49	47
	8	69	58	50	45	57	45	56	45	55	45	43
	9	65	53	46	41	53	41	52	41	51	41	39
10	61	50	43	38	49	38	48	38	47	38	36	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	831	44.5%
0-40	1269	67.9%
0-60	1766	94.5%
0-90	1868	100.0%

Adjustment factors

2500lm	125%
2000lm	100%
1500lm	74%
1000lm	52%
500lm	34%

Report: 1590GFR

Output lumens:	1868 lms	Efficacy:	93.4lm/w
Spacing Criterion:	1.1	CCT ³ :	3500 K
Beam Angle:	80°	CRI:	80 min
Input Watts ² :	20.0W		

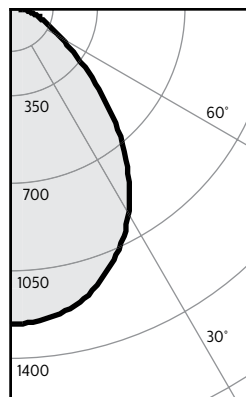
1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

Z4RDL EasyLyte 4"

Round Downlight

Z4RDL20835WOWHZ10U • 20W LED, 80CRI, 3500K

Candela Curves



Report: 1588GFR

Output lumens: 2379lms
Spacing Criterion: 1.1
Beam Angle: 83°
Input Watts: 20.0W

Angle	Mean CP	Lumens
0	1259	
5	1249	
10	1225	118
15	1183	
20	1114	332
25	1034	474
30	932	
35	810	503
40	672	
45	533	410
50	399	
55	287	261
60	210	
65	159	160
70	122	
75	87	92
80	54	
85	25	28
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	50	5.5'
6'	35	6.6'
7'	26	7.7'
8'	20	8.8'
9'	16	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'		0.89
6'		0.58
7'		0.42
8'		0.35
9'		0.28

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	110	106	103	100	104	98	100	95	96	92	87
	2	102	95	89	84	93	83	90	81	87	80	76
	3	94	85	78	73	84	72	81	71	78	70	66
	4	87	77	69	63	76	63	73	62	71	61	59
	5	81	70	62	56	69	56	67	55	65	55	52
	6	76	64	56	50	63	50	61	49	59	49	47
	7	71	58	50	45	58	45	56	44	55	44	42
	8	66	54	46	41	53	41	52	40	51	40	38
	9	62	50	42	37	49	37	48	37	47	37	35
	10	58	46	39	34	46	34	45	34	44	34	32

Zonal lumens & percentages

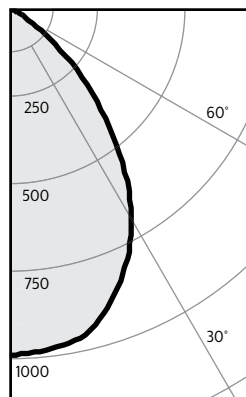
Zone	Lumens	%Luminaire
0-30	925	38.9%
0-40	1428	60.0%
0-60	2099	88.2%
0-90	2379	100.0%

Adjustment factors

2500lm	125%
2000lm	100%
1500lm	74%
1000lm	52%
500lm	34%

Z4RDL20835WSBKZ10U • 20W LED, 80CRI, 3500K

Candela Curves



Report: 1593GFR

Output lumens: 1404lms
Spacing Criterion: 1.1
Beam Angle: 76°
Input Watts: 20.0W

Angle	Mean CP	Lumens
0	984	
5	978	
10	965	93
15	931	
20	865	261
25	787	360
30	688	
35	570	353
40	439	
45	309	238
50	188	
55	91	87
60	33	
65	8	11
70	3	
75	1	1
80	0	
85	0	0
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	39	5.5'
6'	27	6.6'
7'	20	7.7'
8'	15	8.8'
9'	12	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'		0.89
6'		0.58
7'		0.42
8'		0.35
9'		0.28

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	113	109	107	104	107	102	103	99	99	96	92
	2	106	100	95	92	98	91	95	89	92	87	83
	3	99	92	86	81	90	81	88	79	85	78	75
	4	93	84	78	73	83	72	81	71	79	71	68
	5	87	77	71	66	76	65	74	65	73	64	62
	6	82	71	64	59	71	59	69	59	67	58	56
	7	77	66	59	54	65	54	64	54	63	53	51
	8	72	61	54	50	61	49	59	49	58	49	47
	9	68	57	50	46	56	46	55	45	54	45	43
	10	64	53	47	42	53	42	52	42	51	42	40

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	714	50.8%
0-40	1067	76.0%
0-60	1391	99.1%
0-90	1404	100.0%

Adjustment factors

2500lm	125%
2000lm	100%
1500lm	74%
1000lm	52%
500lm	34%

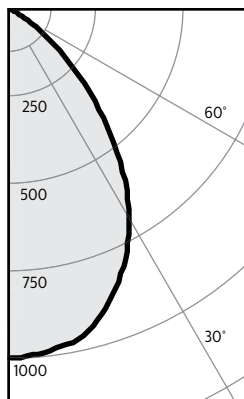
1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

Z4RDL EasyLyte 4"

Round Downlight

Z4RDL20835WSDBZ10U • 20W LED, 80CRI, 3500K

Candela Curves



Report: 1591GFR

Output lumens: 1422 lms
Spacing Criterion: 1.1
Beam Angle: 76°
Input Watts: 20.0W

Efficacy: 71.1lm/w
CCT: 3500 K
CRI: 80 min

Angle	Mean CP	Lumens
0	995	100
5	986	100
10		
15	939	266
20		
25	790	366
30		
35	570	358
40		
45	312	242
50		
55	97	87
60		
65	13	13
70		
75	5	6
80		
85	1	1
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	50	5.5'
6'	35	6.6'
7'	26	7.7'
8'	20	8.8'
9'	16	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'		0.89
6'		0.58
7'		0.42
8'		0.35
9'		0.28

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106
1	112	109	106	104	107	102	103	99	99	96	91
2	106	100	95	91	98	90	95	88	92	86	83
3	99	91	86	81	90	80	87	79	85	78	75
4	93	84	77	72	83	72	80	71	78	70	67
5	87	77	70	65	76	65	74	64	72	64	61
6	81	71	64	59	70	59	69	58	67	58	56
7	77	66	59	54	65	54	64	53	62	53	51
8	72	61	54	49	60	49	59	49	58	49	47
9	68	57	50	45	56	45	55	45	54	45	43
10	64	53	46	42	52	42	52	42	51	41	40

Zonal lumens & percentages

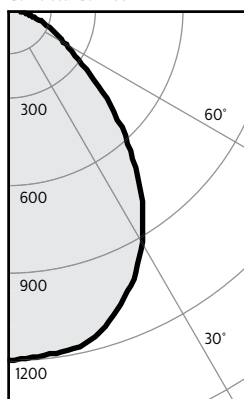
Zone	Lumens	%Luminaire
0-30	717	50.4%
0-40	1070	75.3%
0-60	1399	98.4%
0-90	1422	100.0%

Adjustment factors

2500lm	125%
2000lm	100%
1500lm	74%
1000lm	52%
500lm	34%

Z4RDL20835WSWHZ10U • 20W LED, 80CRI, 3500K

Candela Curves



Report: 1589GFR

Output lumens: 2361 lms
Spacing Criterion: 1.2
Beam Angle: 85°
Input Watts: 20.0W

Efficacy: 118.0lm/w
CCT: 3500 K
CRI: 80 min

Angle	Mean CP	Lumens
0	1192	113
5	1186	
10	1177	
15	1150	323
20	1087	
25	1011	164
30	913	
35	795	495
40	664	
45	531	409
50	402	
55	294	268
60	220	
65	168	168
70	127	
75	88	94
80	54	
85	25	28
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	48	6.0'
6'	33	7.2'
7'	24	8.4'
8'	19	9.6'
9'	15	10.8'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'		0.89
6'		0.58
7'		0.42
8'		0.35
9'		0.28

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106
1	110	106	103	99	104	98	100	95	96	92	87
2	102	95	89	84	93	83	89	81	86	79	76
3	94	85	78	72	83	71	81	70	78	69	66
4	87	77	69	63	75	62	73	62	71	61	58
5	81	69	61	55	68	55	66	55	64	54	51
6	75	63	55	49	62	49	61	49	59	48	46
7	70	58	50	44	57	44	56	44	54	44	41
8	66	53	45	40	53	40	51	40	50	40	38
9	62	49	42	37	49	36	48	36	47	36	34
10	58	46	38	34	45	33	44	33	43	33	31

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	899	38.1%
0-40	1394	59.1%
0-60	2071	87.7%
0-90	2361	100.0%

Adjustment factors

2500lm	125%
2000lm	100%
1500lm	74%
1000lm	52%
500lm	34%

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



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