

# LIGHTOLIER

by @signify

## Downlighting

EasyLyte

Z4RDL 4" Round Aperture



Adaptable, and flexible for your changing project needs. It is your best choice without sacrificing ease of installation or product quality.

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

### Frame

(frame + trim = complete product)

example: 4RN

Series	Aperture	Installation	Options
<b>4</b> 4-inch Non-IC	<b>R</b> Round	<b>N</b> New construction (Non-IC) <b>R</b> Remodeler (Non-IC) <b>A</b> AirSeal (IC) <sup>1</sup>	<b>—</b> Universal 120/277V (specify for Power Over Ethernet) <b>LC</b> Chicago Plenum <sup>2</sup> <b>EM</b> Emergency <sup>4</sup> <b>3</b> 347V (not compatible with ELV dimming) <b>3IP</b> 347V with Interact Pro (for use with 0-10V engines only) <sup>2,3</sup> <b>IP</b> Interact Pro (for use with 0-10V engines only) <sup>2,3</sup>

### Trim

example: Z4RDL20835WOCZ10U

Series	Lumen	CRI/CCT	Beam	Style	Reflector	Dimming	Voltage
<b>Z4RDL</b> EasyLyte 4-inch Round	<b>05</b> 500lm <b>10</b> 1000lm <b>15</b> 1500lm <b>20</b> 2000lm <b>25</b> 2500lm	<b>827</b> 80CRI / 2700K <b>830</b> 80CRI / 3000K <b>835</b> 80CRI / 3500K <b>840</b> 80CRI / 4000K	<b>W</b> Wide	<b>O</b> Open <b>S</b> Step baffle	<b>CD</b> Clear diffuse (applied finish) <b>BK</b> Black (matte) <b>WH</b> White (matte) <b>DZ</b> Dark Bronze	<b>Z10</b> 0-10V 1% <b>L</b> Lutron LDE1 EcoSystem (fade-to-black) <b>ELV</b> ELV <sup>5</sup>	<b>U</b> Universal 120/277/347V <b>1</b> 120V
						<b>P</b> Power over Ethernet (PoE) Only compatible with 1000 (10) to 2500 (25) lumen options	<b>E</b> Ethernet 48V DC

1. There is a 2000lm (20) limit with 4" (4RA) IC housings.
2. Interact Pro (IP), Emergency (EM) and Chicago Plenum (LC) are only available with New construction (N) installs.
3. Integral Interact Pro RF sensor enables network lighting control; to be specified with 0-10V light engines only.
4. Emergency (EM) frame comes with emergency battery pack and ceiling mountable test switch.
5. ELV (E) dimming is only compatible with 1000lm (10), 1500lm (15), 2000lm (20) configurations.

Note: Consult factory for additional dimming options.  
 Reflector mounted test switch requires above ceiling access and 1.25" max ceiling thickness for downlight only. See LED-EM spec sheet for more details.



interact  
ready.

# Z4RDL EasyLyte 4"

## Round Downlight

### Features

#### Optics

- Provides a 70° cutoff (physical and reflected)
- Wide beam distribution for general illumination
- Spun and anodized reflectors available in specular (clear), semi-specular (comfort clear and diffuse finishes. Also available in white and black painted finishes
- 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

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

### Interact Pro (IAP)

- Interact Pro brings the power of connected lighting to small and medium businesses without the complexity usually associated with connected lighting.
- Interact Pro includes an app, a portal and a broad portfolio of wireless Luminaires, lamps and retrofit kits all working on the same system.
- Commissioning via Interact Pro App (Android or iPhone)
- Prepare commissioning remotely via Interact Pro portal
- Requires compatible Interact Pro Gateway and internet connectivity for commissioning
- Compatible with UID8451/10 ZigBee Greenpower wireless dimmer switch
- Compatible with wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) or wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1)
- For more information on Interact Pro visit: [www.interact-lighting.com/pro](http://www.interact-lighting.com/pro)
- For more information on Interact Ready visit: [www.philips.com/interactready](http://www.philips.com/interactready)

### 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:** 60,0000 hrs at 70% lumen maintenance based on IES LM-80-08 and TM-21-11.

### 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

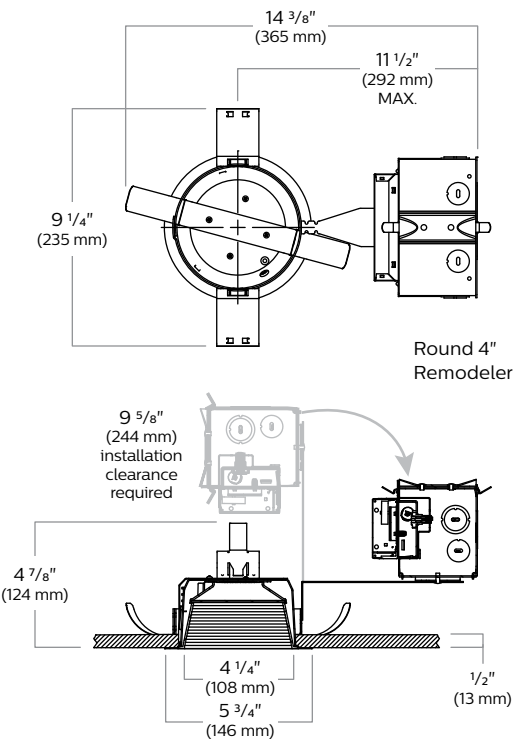
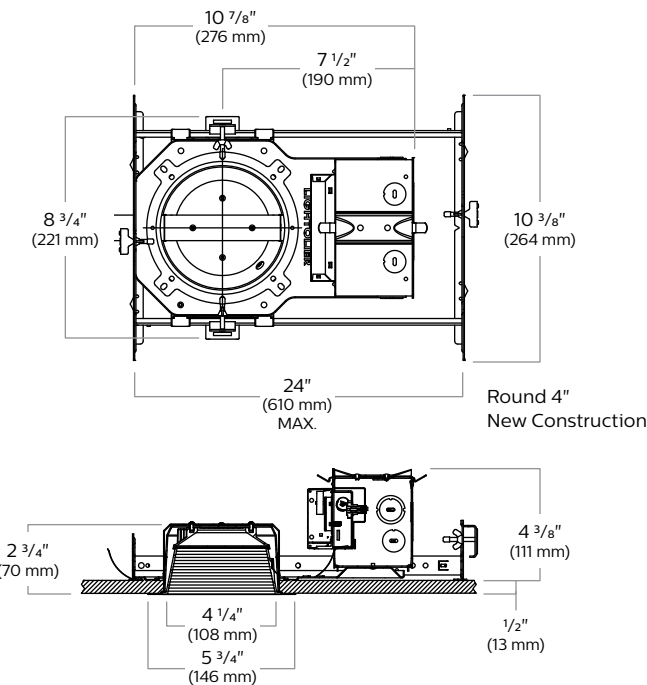


5 year limited warranty  
Visit [Signify.com/warranties](http://Signify.com/warranties) for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

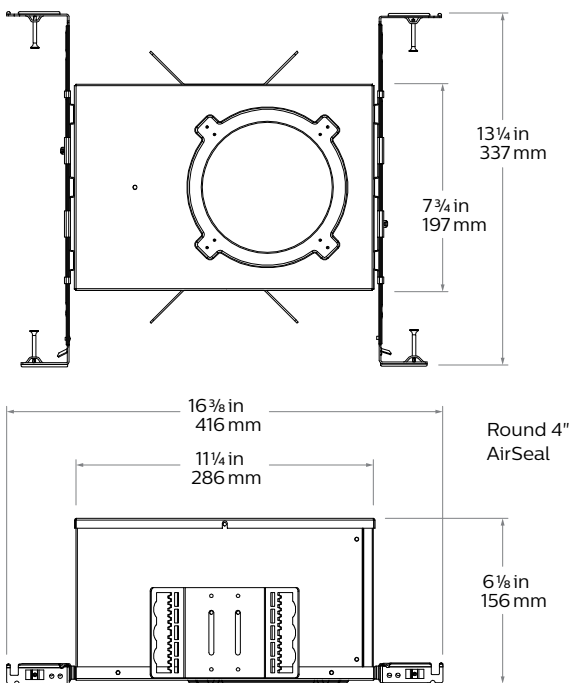
# Z4RDL EasyLyte 4"

## Round Downlight

### Dimensions



### AirSeal (A)

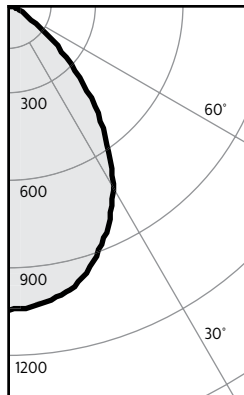


# Z4RDL EasyLyte 4"

## Round Downlight

### Z4RDL20835WOBKZ10U • 20W LED, 80 CRI,

#### Candela Curves



#### Report<sup>1</sup>: 1592GFR

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

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	0	
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

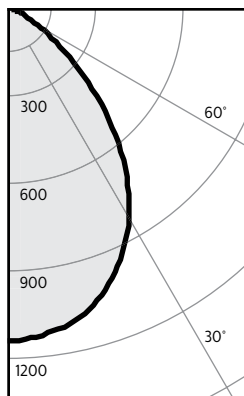
Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	113	109	107	104	107	102	103	99	99	96	92
	2	106	100	96	92	98	91	95	89	92	87	83
	3	99	92	86	81	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%

### Z4RDL20835WOCZ10U • 20W LED, 80 CRI,

#### Candela Curves



#### Report<sup>1</sup>: 1590GFR

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

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%

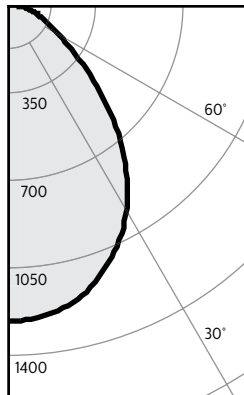
1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications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

# Z4RDL EasyLyte 4"

## Round Downlight

### Z4RDL20835WOWHZ10U • 20W LED, 80 CRI,

#### Candela Curves



#### Report<sup>1</sup>: 1588GFR

Output lumens:	2379 lms	Efficacy:	118.9 lm/w
Spacing Criterion:	1.1	CCT <sup>3</sup> :	3500 K
Beam Angle:	83°	CRI:	80 min
Input Watts <sup>2</sup> :	20.0 W		

Angle	Mean CP	Lumens
0	1259	
5	1249	
10	1225	
15	1183	332
20	1114	
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

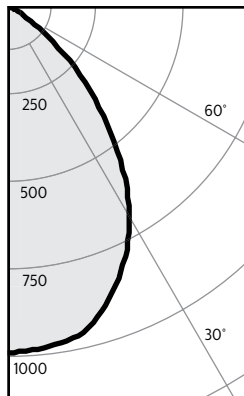
Ceiling		80%				70%		50%		30%		0%
Wall		70	50	30	10	50	10	50	10	50	10	0
RCR		Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	110	106	103	100	104	98	100	95	96	92	87
	2	102	95	89	84	93	83	90	81	87	80	76
	3	94	85	78	73	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%

### Z4RDL20835WSBKZ10U • 20W LED, 80 CRI,

#### Candela Curves



#### Report<sup>1</sup>: 1593GFR

Output lumens:	1404 lms	Efficacy:	70.2 lm/w
Spacing Criterion:	1.1	CCT <sup>3</sup> :	3500 K
Beam Angle:	76°	CRI:	80 min
Input Watts <sup>2</sup> :	20.0 W		

Angle	Mean CP	Lumens
0	984	
5	978	
10	965	
15	931	261
20	865	
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%

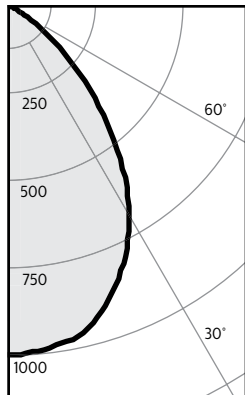
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2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

# Z4RDL EasyLyte 4"

## Round Downlight

### Z4RDL20835WSDBZ10U • 20W LED, 80 CRI,

#### Candela Curves



#### Report<sup>1</sup>: 1591GFR

Output lumens:	1422 lms	Efficacy:	71.1 lm/w
Spacing Criterion:	1.1	CCT <sup>3</sup> :	3500 K
Beam Angle:	76°	CRI:	80 min
Input Watts <sup>2</sup> :	20.0 W		

Angle	Mean CP	Lumens
0		94
5		
10		
15		262
20		
25		361
30		
35		353
40		
45		239
50		
55		90
60		
65		16
70		
75		6
80		
85		1
90		

#### 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

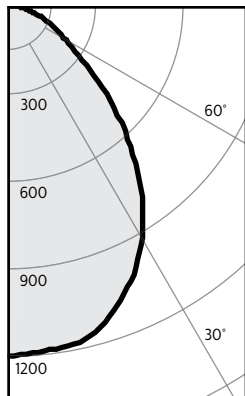
Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	112	109	106	104	107	102	103	99	99	96	91
	2	106	100	95	91	98	90	95	88	92	86	83
	3	99	91	86	81	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%

### Z4RDL20835WSWHZ10U • 20W LED, 80 CRI,

#### Candela Curves



#### Report<sup>1</sup>: 1589GFR

Output lumens:	2361 lms	Efficacy:	118.0 lm/w
Spacing Criterion:	1.2	CCT <sup>3</sup> :	3500 K
Beam Angle:	85°	CRI:	80 min
Input Watts <sup>2</sup> :	20.0 W		

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	100
	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%

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.

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

