

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P220005

Luminaire Tested: **Z3-WL-1L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35873)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-1L35-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2023.1 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

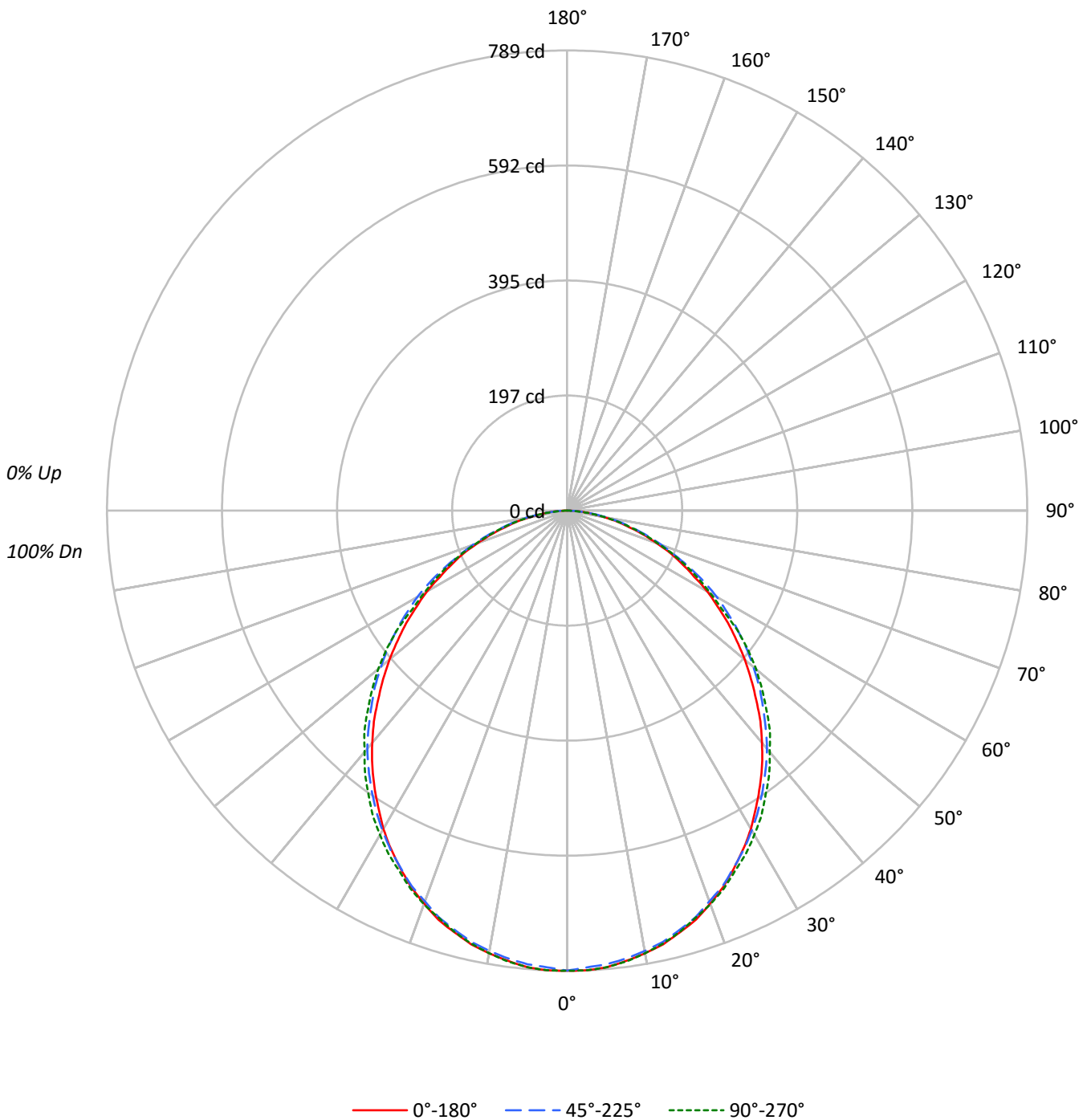
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2123	2123	2123
5°	2123	2109	2123
10°	2106	2095	2106
15°	2085	2074	2082
20°	2053	2042	2056
25°	2009	2006	2024
30°	1958	1967	1995
35°	1894	1920	1950
40°	1826	1872	1897
45°	1743	1805	1840
50°	1664	1744	1770
55°	1580	1675	1666
60°	1497	1595	1524
65°	1391	1475	1436
70°	1281	1352	1313
75°	1146	1220	1188
80°	1003	1082	1018
85°	843	812	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.7
10°-20°	210.6	10.4
20°-30°	312.6	15.4
30°-40°	366.1	18.1
40°-50°	365.3	18.1
50°-60°	314.0	15.5
60°-70°	225.3	11.1
70°-80°	123.8	6.1
80°-90°	31.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	597.6	29.5
0°-40°	963.6	47.6
0°-60°	1642.8	81.2
0°-90°	2023.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2023.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	786	785	781	786	786	74
15°	748	747	744	748	747	211
25°	677	677	676	682	682	312
35°	576	578	585	593	594	360
45°	458	463	474	483	483	354
55°	337	346	357	359	355	301
65°	218	229	232	228	226	217
75°	110	118	117	117	114	118
85°	27	28	26	23	24	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.9	788.9	788.9	788.9	788.9
2.5°	788.9	787.8	783.8	788.9	788.9
5°	785.8	784.8	780.8	785.8	785.8
7.5°	778.7	778.7	774.7	778.7	779.7
10°	770.6	770.6	766.6	771.7	770.6
12.5°	761.5	759.5	757.5	761.5	760.5
15°	748.4	747.4	744.4	748.4	747.4
17.5°	735.2	733.2	731.2	734.2	732.2
20°	717.0	716.0	713.0	718.1	718.1
22.5°	698.8	697.8	696.8	700.9	701.9
25°	676.6	676.6	675.6	681.6	681.6
27.5°	654.3	654.3	655.4	662.4	663.4
30°	630.1	630.1	633.1	641.2	642.2
32.5°	602.8	604.8	609.8	618.9	620.0
35°	576.5	578.5	584.6	592.6	593.7
37.5°	549.2	551.2	559.3	567.4	569.4
40°	519.8	521.9	533.0	540.1	540.1
42.5°	490.5	493.5	503.7	512.8	514.8
45°	458.1	463.2	474.3	483.4	483.4
47.5°	427.8	434.9	447.0	455.1	453.1
50°	397.5	404.5	416.7	423.8	422.7
52.5°	366.1	374.2	387.3	392.4	390.4
55°	336.8	345.9	357.0	359.0	355.0
57.5°	305.4	315.5	325.7	325.7	314.5
60°	278.1	286.2	296.3	285.2	283.2
62.5°	245.8	257.9	265.0	254.9	254.9
65°	218.5	228.6	231.6	227.6	225.5
67.5°	192.2	200.2	200.2	198.2	197.2
70°	162.8	171.9	171.9	168.9	166.9
72.5°	136.5	145.6	144.6	144.6	140.6
75°	110.2	118.3	117.3	117.3	114.3
77.5°	88.0	92.0	94.1	91.0	90.0
80°	64.7	68.8	69.8	66.7	65.7
82.5°	43.5	47.5	47.5	45.5	43.5
85°	27.3	28.3	26.3	23.3	24.3
87.5°	12.1	11.1	9.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)