

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: P220010

Luminaire Tested: **Z3-WL-1L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220010
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-1L40-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2137.8 lumens
Efficiency: N/A
Efficacy: 135.3 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

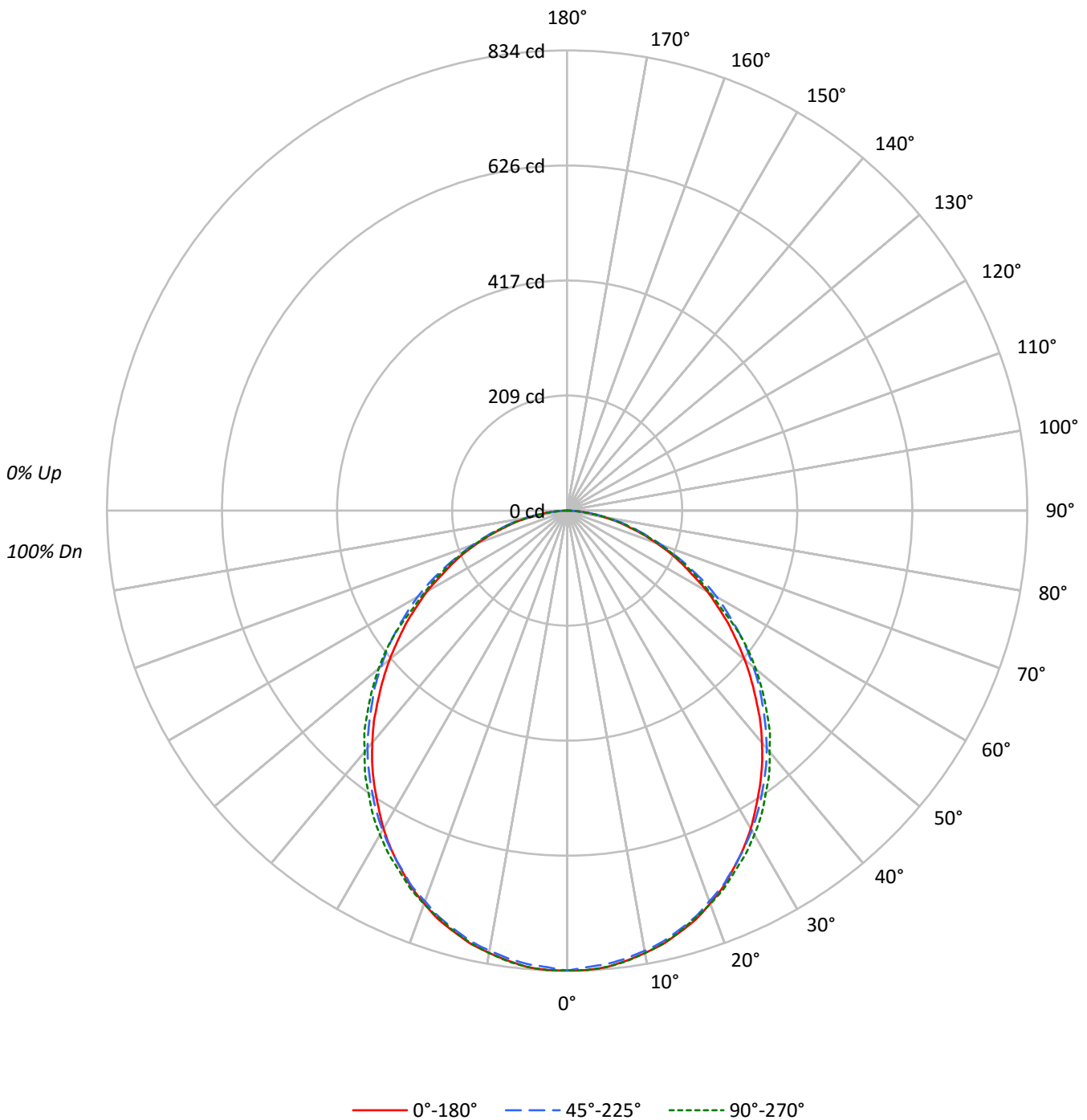
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2243	2243	2243
5°	2243	2229	2243
10°	2225	2214	2225
15°	2203	2191	2200
20°	2170	2157	2173
25°	2123	2120	2139
30°	2069	2079	2109
35°	2001	2029	2061
40°	1930	1978	2005
45°	1842	1907	1944
50°	1758	1843	1870
55°	1670	1770	1760
60°	1582	1685	1610
65°	1470	1558	1517
70°	1354	1430	1387
75°	1211	1289	1256
80°	1060	1142	1077
85°	892	858	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.7
10°-20°	222.6	10.4
20°-30°	330.3	15.4
30°-40°	386.8	18.1
40°-50°	386.0	18.1
50°-60°	331.7	15.5
60°-70°	238.1	11.1
70°-80°	130.9	6.1
80°-90°	32.9	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°	631.4	29.5
0°-40°	1018.2	47.6
0°-60°	1735.9	81.2
0°-90°	2137.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2137.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	830	829	825	830	830	79
15°	791	790	786	791	790	223
25°	715	715	714	720	720	329
35°	609	611	618	626	627	381
45°	484	490	501	511	511	374
55°	356	366	377	379	375	318
65°	231	242	245	240	238	229
75°	116	125	124	124	121	125
85°	29	30	28	25	26	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.6	833.6	833.6	833.6	833.6
2.5°	833.6	832.5	828.2	833.6	833.6
5°	830.4	829.3	825.0	830.4	830.4
7.5°	822.9	822.9	818.6	822.9	823.9
10°	814.3	814.3	810.1	815.4	814.3
12.5°	804.7	802.6	800.4	804.7	803.6
15°	790.8	789.7	786.5	790.8	789.7
17.5°	776.9	774.8	772.6	775.9	773.7
20°	757.7	756.6	753.4	758.8	758.8
22.5°	738.5	737.4	736.3	740.6	741.7
25°	714.9	714.9	713.9	720.3	720.3
27.5°	691.4	691.4	692.5	700.0	701.0
30°	665.8	665.8	669.0	677.5	678.6
32.5°	636.9	639.1	644.4	654.0	655.1
35°	609.1	611.3	617.7	626.2	627.3
37.5°	580.3	582.4	591.0	599.5	601.7
40°	549.3	551.4	563.2	570.7	570.7
42.5°	518.3	521.5	532.2	541.8	544.0
45°	484.1	489.5	501.2	510.8	510.8
47.5°	452.0	459.5	472.4	480.9	478.8
50°	420.0	427.5	440.3	447.8	446.7
52.5°	386.9	395.4	409.3	414.6	412.5
55°	355.9	365.5	377.2	379.4	375.1
57.5°	322.7	333.4	344.1	344.1	332.4
60°	293.9	302.4	313.1	301.4	299.2
62.5°	259.7	272.5	280.0	269.3	269.3
65°	230.8	241.5	244.7	240.5	238.3
67.5°	203.0	211.6	211.6	209.5	208.4
70°	172.1	181.7	181.7	178.5	176.3
72.5°	144.3	153.9	152.8	152.8	148.5
75°	116.5	125.0	124.0	124.0	120.8
77.5°	93.0	97.2	99.4	96.2	95.1
80°	68.4	72.7	73.7	70.5	69.5
82.5°	46.0	50.2	50.2	48.1	46.0
85°	28.9	29.9	27.8	24.6	25.6
87.5°	12.8	11.8	9.6	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)