

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: P220136

Luminaire Tested: **Z3-WL-1L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)  
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-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2083.4 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

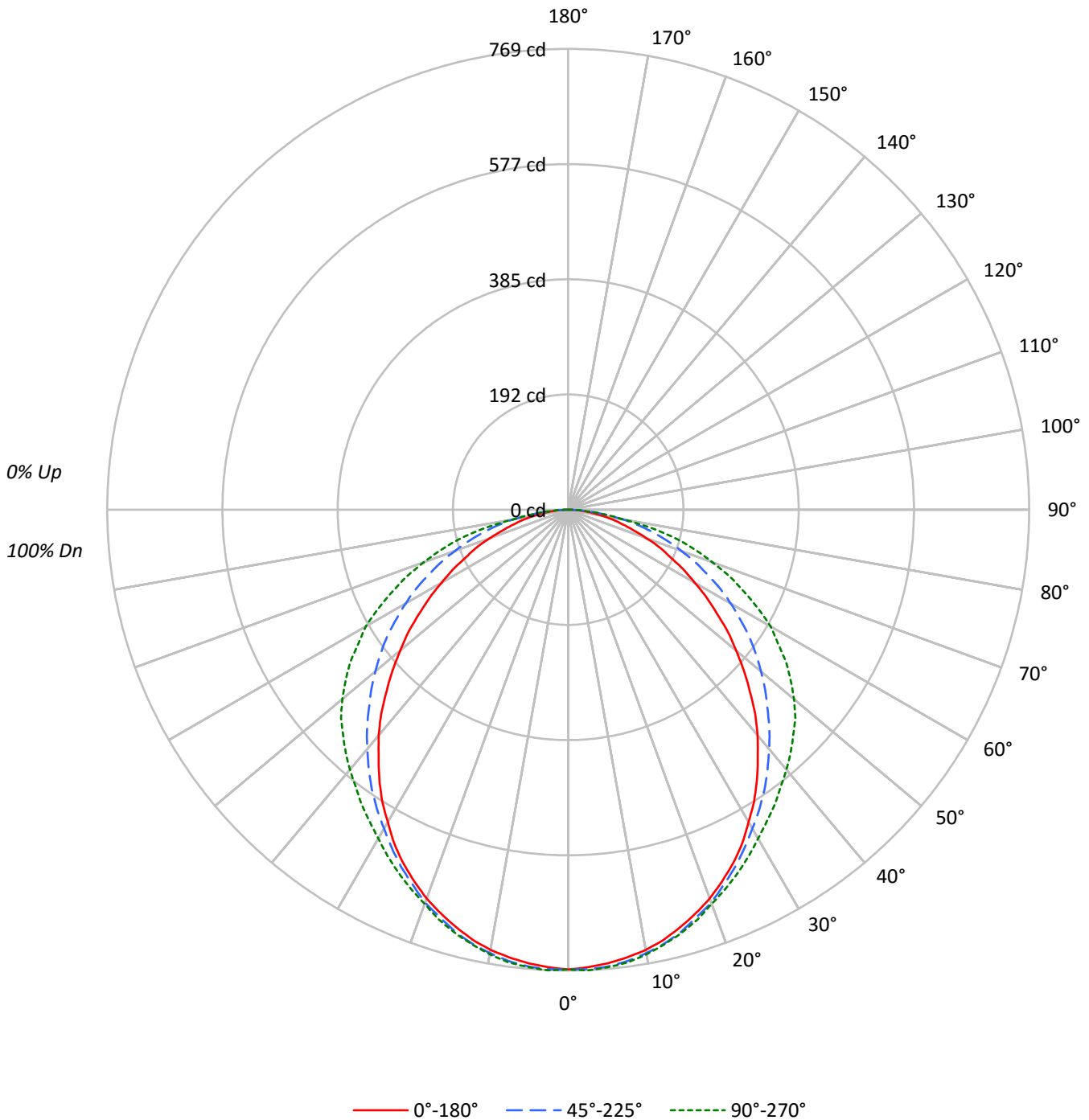
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2065	2065	2065
5°	2052	2067	2070
10°	2038	2053	2059
15°	2010	2030	2036
20°	1977	1998	2005
25°	1932	1955	1986
30°	1870	1909	1969
35°	1804	1875	1973
40°	1727	1832	1990
45°	1631	1789	2021
50°	1530	1758	2058
55°	1424	1730	2081
60°	1312	1685	2100
65°	1198	1633	2062
70°	1093	1581	2009
75°	977	1522	1944
80°	862	1424	1457
85°	760	1121	1090



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	3.5
10°-20°	205.0	9.8
20°-30°	303.6	14.6
30°-40°	357.9	17.2
40°-50°	367.0	17.6
50°-60°	331.8	15.9
60°-70°	255.1	12.2
70°-80°	151.2	7.3
80°-90°	39.3	1.9
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°	581.1	27.9
0°-40°	939.0	45.1
0°-60°	1637.7	78.6
0°-90°	2083.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2083.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	760	762	765	766	766	72
15°	721	724	729	731	731	203
25°	651	653	658	666	669	299
35°	549	552	571	591	601	343
45°	428	437	470	513	531	331
55°	304	325	369	420	444	272
65°	188	212	256	306	324	189
75°	94	112	146	177	187	101
85°	25	30	36	38	35	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	767.3	767.3	767.3	767.3	767.3
2.5°	764.1	765.2	767.3	769.4	769.4
5°	759.8	762.0	765.2	766.2	766.2
7.5°	753.4	755.5	759.8	760.9	762.0
10°	745.9	747.0	751.3	753.4	753.4
12.5°	735.2	737.4	741.7	743.8	742.7
15°	721.4	723.5	728.8	731.0	731.0
17.5°	706.4	708.5	712.8	716.0	717.1
20°	690.4	691.4	697.8	700.0	700.0
22.5°	671.1	674.3	677.5	683.9	685.0
25°	650.8	653.0	658.3	665.8	669.0
27.5°	628.4	629.4	636.9	648.7	651.9
30°	601.7	605.9	614.5	629.4	633.7
32.5°	577.1	580.3	593.1	610.2	616.6
35°	549.3	552.5	570.7	591.0	600.6
37.5°	519.4	523.6	546.1	570.7	582.4
40°	491.6	496.9	521.5	552.5	566.4
42.5°	461.7	467.0	496.9	532.2	549.3
45°	428.5	437.1	470.2	513.0	531.1
47.5°	397.5	408.2	445.6	492.7	514.0
50°	365.5	380.4	420.0	471.3	491.6
52.5°	336.6	350.5	394.3	446.7	468.1
55°	303.5	324.9	368.7	420.0	443.5
57.5°	274.6	293.9	339.8	394.3	414.6
60°	243.7	265.0	313.1	365.5	390.1
62.5°	216.9	237.2	286.4	336.6	356.9
65°	188.1	211.6	256.5	305.6	323.8
67.5°	166.7	182.7	229.8	275.7	291.7
70°	138.9	158.2	200.9	242.6	255.4
72.5°	114.3	134.7	174.2	210.5	222.3
75°	94.0	112.2	146.4	177.4	187.0
77.5°	75.9	90.8	120.8	142.1	144.3
80°	55.6	68.4	91.9	97.2	94.0
82.5°	39.5	48.1	60.9	64.1	60.9
85°	24.6	29.9	36.3	38.5	35.3
87.5°	11.8	11.8	15.0	15.0	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)