

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: P220261

Luminaire Tested: **Z3-WL-4L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35865)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-4L40-LD5-UNV-24
Description: CLASS Z3 2X4 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: 6347.6 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

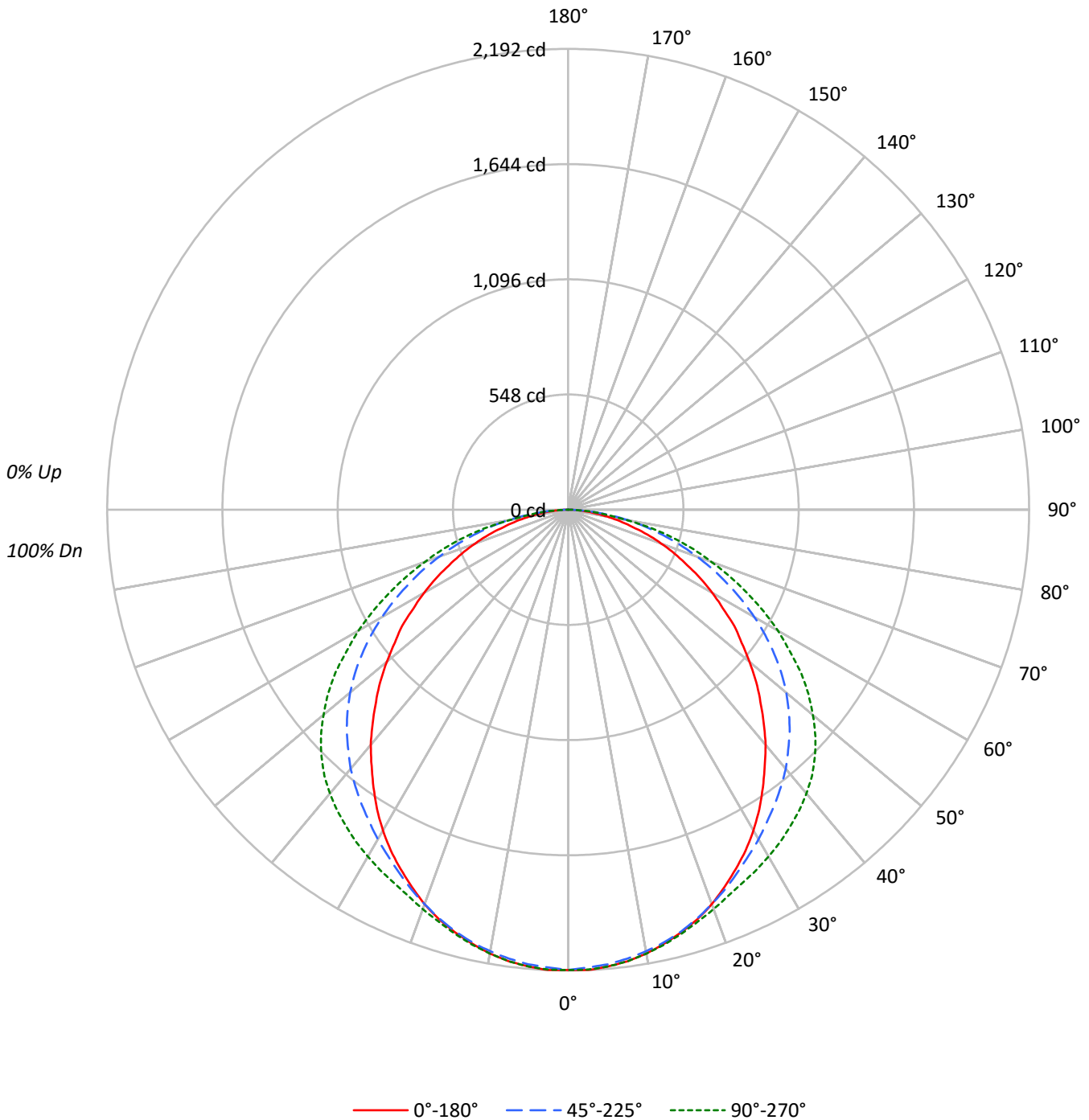
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2946	2946	2946
5°	2946	2932	2946
10°	2928	2914	2928
15°	2898	2892	2907
20°	2859	2859	2895
25°	2799	2827	2908
30°	2738	2813	2959
35°	2650	2812	3022
40°	2565	2826	3095
45°	2460	2835	3158
50°	2355	2833	3180
55°	2261	2807	3170
60°	2131	2752	3101
65°	1988	2662	2988
70°	1854	2555	2852
75°	1645	2418	2679
80°	1445	2256	2143
85°	1229	1778	1746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	3.3
10°-20°	587.2	9.3
20°-30°	884.2	13.9
30°-40°	1077.3	17.0
40°-50°	1142.1	18.0
50°-60°	1049.6	16.5
60°-70°	804.0	12.7
70°-80°	469.8	7.4
80°-90°	126.7	2.0
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°	1678.1	26.4
0°-40°	2755.4	43.4
0°-60°	4947.0	77.9
0°-90°	6347.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6347.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2190	2190	2190	2190	2190	
5°	2181	2177	2171	2181	2181	207
15°	2080	2080	2076	2087	2087	587
25°	1886	1894	1904	1944	1959	869
35°	1613	1634	1712	1806	1840	1009
45°	1293	1343	1490	1618	1659	998
55°	964	1039	1196	1314	1351	857
65°	624	706	836	922	939	622
75°	316	388	465	511	515	341
85°	80	111	115	117	113	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2189.5	2189.5	2189.5	2189.5	2189.5
2.5°	2191.6	2187.4	2179.0	2189.5	2189.5
5°	2181.1	2176.9	2170.6	2181.1	2181.1
7.5°	2166.4	2162.2	2153.9	2166.4	2166.4
10°	2143.4	2141.3	2132.9	2145.5	2143.4
12.5°	2114.1	2114.1	2107.8	2118.2	2118.2
15°	2080.5	2080.5	2076.3	2086.8	2086.8
17.5°	2042.8	2042.8	2038.6	2053.3	2053.3
20°	1996.7	1992.5	1996.7	2017.7	2021.9
22.5°	1942.3	1944.3	1952.7	1980.0	1988.3
25°	1885.7	1894.1	1904.5	1944.3	1959.0
27.5°	1827.0	1835.4	1856.3	1912.9	1933.9
30°	1762.1	1772.5	1810.3	1879.4	1904.5
32.5°	1690.8	1707.6	1760.0	1845.9	1875.2
35°	1613.3	1634.3	1711.8	1806.1	1839.6
37.5°	1535.8	1565.1	1661.5	1768.3	1804.0
40°	1460.4	1491.8	1609.1	1724.4	1762.1
42.5°	1376.5	1418.5	1548.4	1672.0	1716.0
45°	1292.7	1343.0	1489.7	1617.5	1659.4
47.5°	1213.1	1267.6	1422.6	1554.6	1594.4
50°	1125.1	1196.4	1353.5	1479.2	1519.0
52.5°	1039.2	1116.7	1278.1	1405.9	1439.4
55°	963.8	1039.2	1196.4	1313.7	1351.4
57.5°	871.6	961.7	1110.5	1221.5	1246.6
60°	792.0	869.5	1022.5	1125.1	1152.4
62.5°	710.3	794.1	932.4	1020.4	1047.6
65°	624.4	706.1	836.0	921.9	938.6
67.5°	548.9	628.6	748.0	812.9	833.9
70°	471.4	540.6	649.5	714.5	724.9
72.5°	396.0	465.1	559.4	609.7	624.4
75°	316.4	387.6	465.1	511.2	515.4
77.5°	251.4	312.2	379.2	404.4	406.5
80°	186.5	240.9	291.2	289.1	276.6
82.5°	127.8	169.7	196.9	192.8	184.4
85°	79.6	111.0	115.2	117.3	113.1
87.5°	35.6	44.0	48.2	48.2	46.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)