

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: P220276

Luminaire Tested: **Z3-WG-5L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35866)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-5L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6691.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.44 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

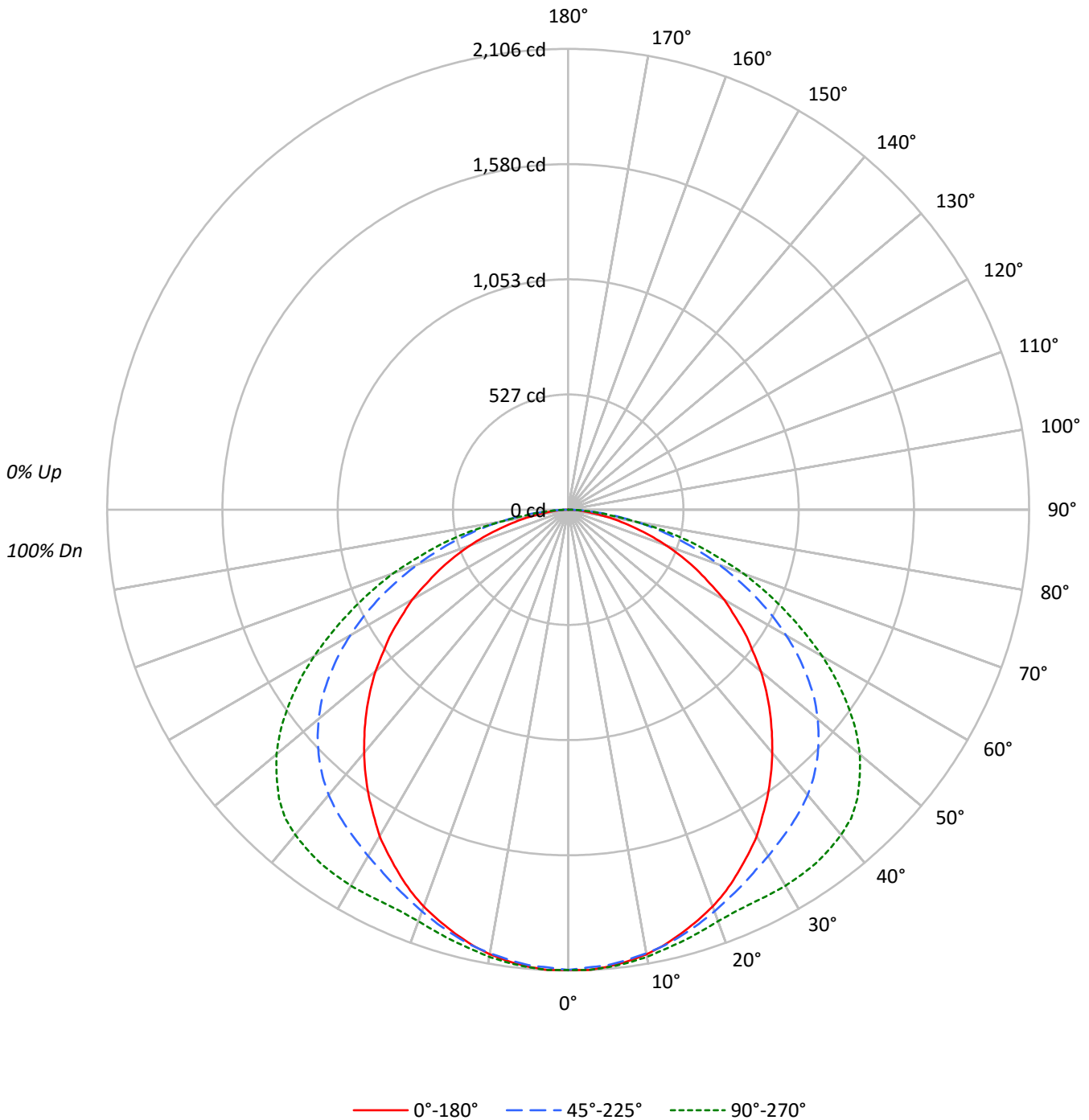
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2830	2830	2830
5°	2831	2821	2834
10°	2818	2812	2835
15°	2791	2804	2840
20°	2763	2797	2865
25°	2720	2805	2946
30°	2677	2840	3083
35°	2612	2905	3240
40°	2547	2989	3406
45°	2480	3062	3555
50°	2405	3115	3642
55°	2316	3130	3658
60°	2217	3098	3609
65°	2063	3015	3484
70°	1868	2886	3343
75°	1592	2690	3073
80°	1288	2428	2373
85°	880	1723	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	3.0
10°-20°	570.1	8.5
20°-30°	877.9	13.1
30°-40°	1111.5	16.6
40°-50°	1228.8	18.4
50°-60°	1163.9	17.4
60°-70°	901.6	13.5
70°-80°	513.8	7.7
80°-90°	124.5	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°	1646.9	24.6
0°-40°	2758.5	41.2
0°-60°	5151.1	77.0
0°-90°	6691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2103	2103	2103	2103	2103	
5°	2096	2094	2089	2096	2098	199
15°	2004	2008	2013	2032	2039	565
25°	1832	1847	1890	1958	1984	844
35°	1590	1631	1768	1918	1973	994
45°	1303	1386	1609	1799	1868	1005
55°	988	1106	1334	1505	1560	880
65°	648	762	947	1068	1094	640
75°	306	404	518	574	591	330
85°	57	104	112	109	109	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2103.2	2103.2	2103.2	2103.2	2103.2
2.5°	2105.5	2100.8	2093.7	2103.2	2105.5
5°	2096.0	2093.7	2088.9	2096.0	2098.4
7.5°	2081.8	2079.4	2074.7	2086.5	2088.9
10°	2062.8	2062.8	2058.0	2069.9	2074.7
12.5°	2036.7	2039.1	2039.1	2050.9	2055.7
15°	2003.5	2008.2	2012.9	2031.9	2039.1
17.5°	1967.8	1975.0	1984.5	2008.2	2020.1
20°	1929.9	1934.6	1953.6	1989.2	2001.1
22.5°	1884.8	1891.9	1920.4	1970.2	1989.2
25°	1832.5	1846.8	1889.5	1958.4	1984.5
27.5°	1777.9	1794.6	1856.3	1946.5	1984.5
30°	1723.3	1742.3	1827.8	1939.4	1984.5
32.5°	1654.5	1687.7	1796.9	1932.2	1979.7
35°	1590.4	1630.8	1768.5	1918.0	1972.6
37.5°	1521.6	1571.4	1737.6	1899.0	1958.4
40°	1450.4	1512.1	1702.0	1875.3	1939.4
42.5°	1376.8	1450.4	1659.3	1844.4	1913.2
45°	1303.2	1386.3	1609.4	1799.3	1868.1
47.5°	1227.2	1319.8	1552.4	1744.7	1806.4
50°	1148.9	1251.0	1488.3	1678.2	1740.0
52.5°	1063.4	1182.1	1417.1	1597.5	1656.9
55°	987.5	1106.2	1334.1	1505.0	1559.6
57.5°	899.7	1032.6	1246.2	1410.0	1455.1
60°	823.7	940.0	1151.3	1300.8	1341.2
62.5°	728.7	861.7	1051.6	1186.9	1217.7
65°	648.0	762.0	947.1	1068.2	1094.3
67.5°	560.2	671.8	837.9	944.8	973.2
70°	474.8	576.8	733.5	818.9	849.8
72.5°	391.7	489.0	624.3	697.9	712.1
75°	306.2	403.5	517.5	574.4	591.1
77.5°	235.0	315.7	415.4	460.5	458.1
80°	166.2	237.4	313.3	320.5	306.2
82.5°	106.8	168.5	211.3	194.6	194.6
85°	57.0	104.4	111.6	109.2	109.2
87.5°	21.4	38.0	38.0	38.0	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)