

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: P302438

Luminaire Tested: **ZX-WO-70L840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-42)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-70L840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (392)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6866.4 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

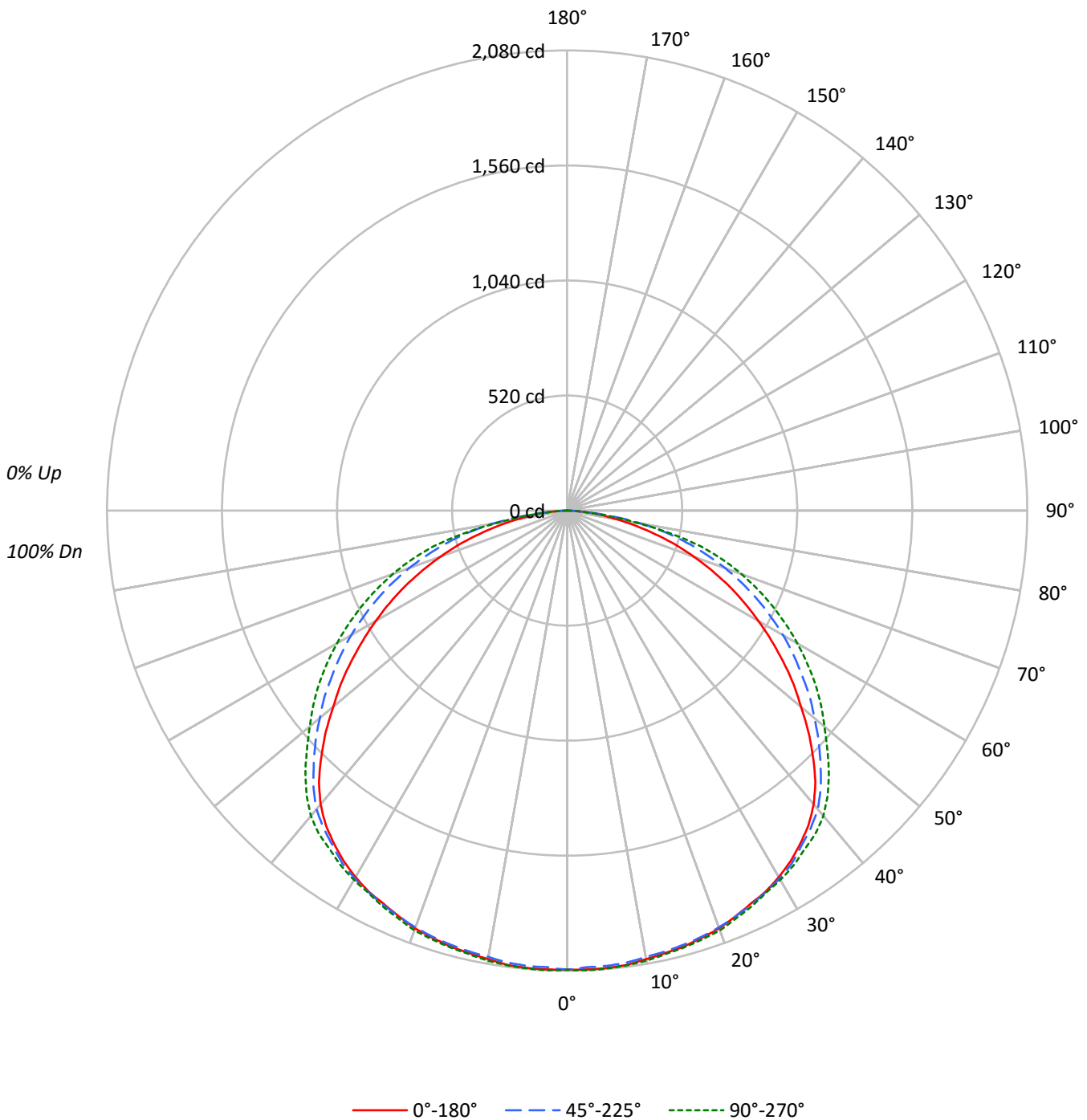
Input Watts (W): 51
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	90		93	90	88		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74		81	76	72		77	74	70	68
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52		62	56	51		60	55	50	48
5	74	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	38		50	43	38		49	43	38	36
7	63	50	41	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2793	2793	2793
5°	2803	2790	2807
10°	2813	2799	2823
15°	2841	2830	2847
20°	2878	2871	2892
25°	2912	2919	2930
30°	2972	2984	2995
35°	3019	3035	3071
40°	3045	3096	3164
45°	2990	3082	3184
50°	2888	3055	3177
55°	2799	3037	3214
60°	2688	3034	3236
65°	2571	3018	3266
70°	2394	2985	3301
75°	2143	2912	3252
80°	1784	2686	2499
85°	1348	1572	1311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.5	2.9
10°-20°	576.8	8.4
20°-30°	909.8	13.2
30°-40°	1161.5	16.9
40°-50°	1251.1	18.2
50°-60°	1152.7	16.8
60°-70°	922.0	13.4
70°-80°	565.9	8.2
80°-90°	129.1	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°	1684.1	24.5
0°-40°	2845.5	41.4
0°-60°	5249.4	76.5
0°-90°	6866.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6866.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2076	2076	2066	2078	2078	198
15°	2039	2042	2032	2044	2044	577
25°	1962	1964	1966	1976	1974	907
35°	1838	1843	1848	1867	1870	1149
45°	1571	1588	1620	1661	1673	1210
55°	1193	1224	1295	1353	1370	1066
65°	807	861	948	1006	1026	797
75°	412	478	560	611	626	439
85°	87	116	102	90	85	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2075.6	2075.6	2075.6	2075.6	2075.6
2.5°	2075.6	2078.0	2065.9	2078.0	2080.4
5°	2075.6	2075.6	2065.9	2078.0	2078.0
7.5°	2070.7	2070.7	2061.0	2073.1	2073.1
10°	2058.6	2058.6	2048.9	2061.0	2065.9
12.5°	2048.9	2048.9	2041.6	2053.7	2053.7
15°	2039.2	2041.6	2031.9	2044.0	2044.0
17.5°	2024.6	2024.6	2019.8	2029.5	2031.9
20°	2010.1	2010.1	2005.2	2017.4	2019.8
22.5°	1985.8	1988.3	1985.8	1995.5	1995.5
25°	1961.6	1964.0	1966.4	1976.1	1973.7
27.5°	1942.2	1944.6	1944.6	1954.3	1947.1
30°	1913.1	1920.4	1920.4	1925.2	1927.7
32.5°	1879.2	1888.9	1891.3	1901.0	1903.4
35°	1837.9	1842.8	1847.6	1867.0	1869.5
37.5°	1791.9	1804.0	1808.8	1835.5	1842.8
40°	1733.7	1748.2	1762.8	1796.7	1801.6
42.5°	1660.9	1677.9	1697.3	1733.7	1743.4
45°	1571.2	1588.2	1619.7	1660.9	1673.1
47.5°	1479.1	1498.5	1542.1	1585.8	1595.5
50°	1379.7	1408.8	1459.7	1510.6	1517.9
52.5°	1290.0	1319.0	1382.1	1435.4	1447.6
55°	1193.0	1224.5	1294.8	1353.0	1370.0
57.5°	1096.0	1137.2	1212.4	1270.6	1287.5
60°	999.0	1042.6	1127.5	1180.8	1202.7
62.5°	904.4	952.9	1037.8	1098.4	1115.4
65°	807.4	860.8	948.1	1006.3	1025.7
67.5°	708.0	763.8	855.9	914.1	933.5
70°	608.6	671.6	758.9	822.0	839.0
72.5°	514.0	572.2	659.5	715.3	737.1
75°	412.2	477.7	560.1	611.0	625.6
77.5°	320.1	383.1	455.8	487.4	482.5
80°	230.3	295.8	346.7	337.0	322.5
82.5°	155.2	208.5	215.8	201.3	196.4
85°	87.3	116.4	101.8	89.7	84.9
87.5°	36.4	31.5	17.0	7.3	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)