

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: P302439

Luminaire Tested: **ZX-WO-75L840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302439
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-75L840-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: 7408.7 lumens
Efficiency: N/A
Efficacy: 133.7 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

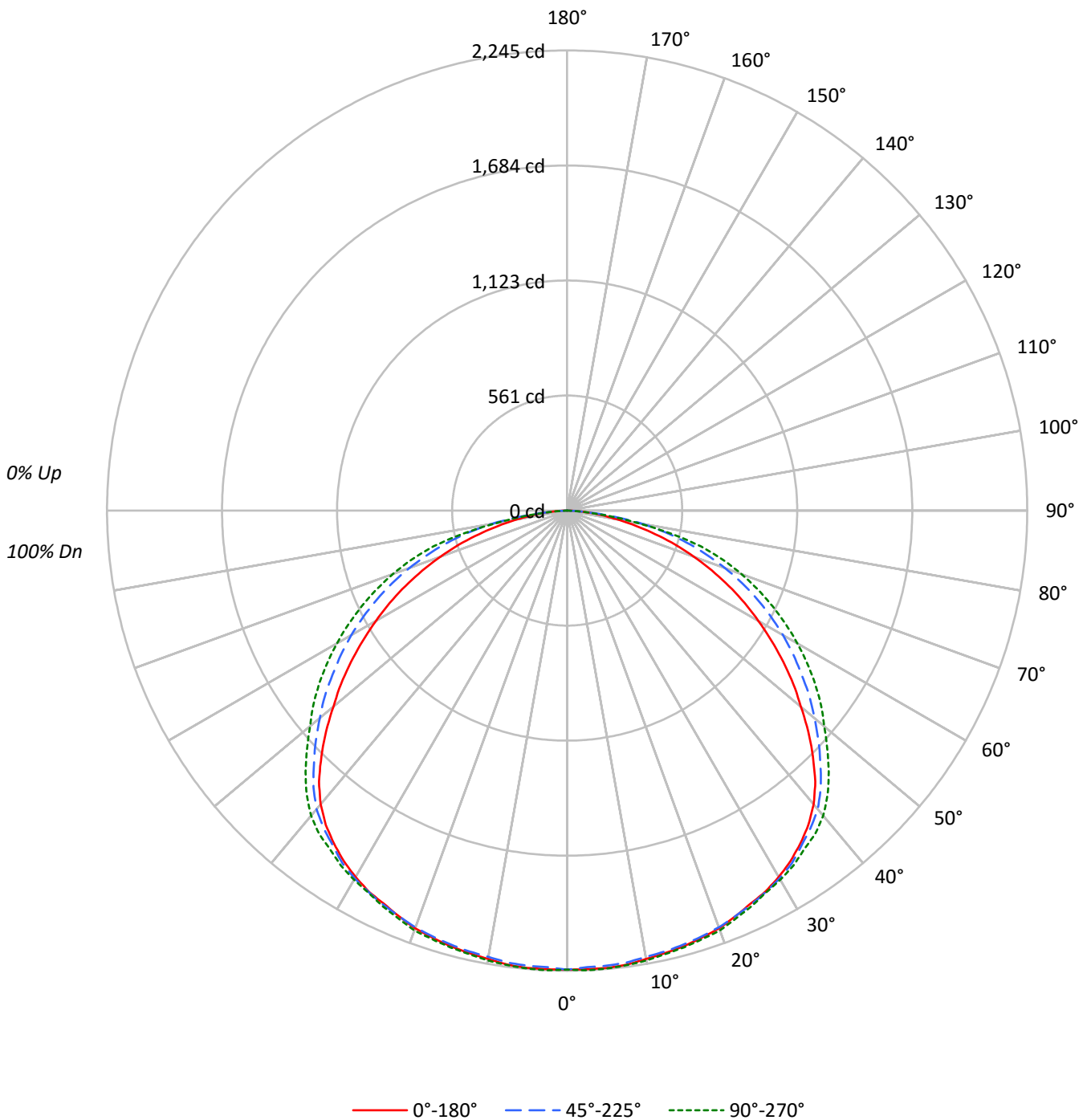
Input Watts (W): 55.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3013	3013	3013
5°	3025	3011	3028
10°	3035	3020	3045
15°	3065	3054	3072
20°	3105	3098	3120
25°	3142	3150	3162
30°	3207	3219	3231
35°	3257	3275	3313
40°	3286	3341	3414
45°	3226	3325	3435
50°	3116	3297	3428
55°	3019	3277	3468
60°	2901	3274	3492
65°	2774	3257	3523
70°	2583	3222	3561
75°	2312	3141	3509
80°	1925	2899	2696
85°	1454	1697	1414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	2.9
10°-20°	622.4	8.4
20°-30°	981.6	13.2
30°-40°	1253.2	16.9
40°-50°	1349.9	18.2
50°-60°	1243.8	16.8
60°-70°	994.8	13.4
70°-80°	610.6	8.2
80°-90°	139.3	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°	1817.1	24.5
0°-40°	3070.3	41.4
0°-60°	5664.0	76.5
0°-90°	7408.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7408.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2240	2240	2240	2240	2240	
5°	2240	2240	2229	2242	2242	213
15°	2200	2203	2192	2206	2206	622
25°	2116	2119	2122	2132	2130	979
35°	1983	1988	1994	2014	2017	1240
45°	1695	1714	1748	1792	1805	1305
55°	1287	1321	1397	1460	1478	1150
65°	871	929	1023	1086	1107	860
75°	445	515	604	659	675	474
85°	94	126	110	97	92	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2239.5	2239.5	2239.5	2239.5	2239.5
2.5°	2239.5	2242.1	2229.0	2242.1	2244.7
5°	2239.5	2239.5	2229.0	2242.1	2242.1
7.5°	2234.3	2234.3	2223.8	2236.9	2236.9
10°	2221.2	2221.2	2210.7	2223.8	2229.0
12.5°	2210.7	2210.7	2202.9	2215.9	2215.9
15°	2200.2	2202.9	2192.4	2205.5	2205.5
17.5°	2184.5	2184.5	2179.3	2189.8	2192.4
20°	2168.8	2168.8	2163.6	2176.7	2179.3
22.5°	2142.7	2145.3	2142.7	2153.2	2153.2
25°	2116.5	2119.1	2121.8	2132.2	2129.6
27.5°	2095.6	2098.2	2098.2	2108.7	2100.8
30°	2064.2	2072.0	2072.0	2077.3	2079.9
32.5°	2027.6	2038.0	2040.7	2051.1	2053.7
35°	1983.1	1988.3	1993.6	2014.5	2017.1
37.5°	1933.4	1946.5	1951.7	1980.5	1988.3
40°	1870.6	1886.3	1902.0	1938.6	1943.9
42.5°	1792.1	1810.4	1831.4	1870.6	1881.1
45°	1695.3	1713.6	1747.6	1792.1	1805.2
47.5°	1595.9	1616.8	1663.9	1711.0	1721.5
50°	1488.6	1520.0	1575.0	1629.9	1637.8
52.5°	1391.8	1423.2	1491.2	1548.8	1561.9
55°	1287.2	1321.2	1397.1	1459.9	1478.2
57.5°	1182.5	1227.0	1308.1	1370.9	1389.2
60°	1077.9	1125.0	1216.5	1274.1	1297.6
62.5°	975.9	1028.2	1119.7	1185.1	1203.5
65°	871.2	928.8	1022.9	1085.7	1106.7
67.5°	763.9	824.1	923.5	986.3	1007.2
70°	656.7	724.7	818.9	886.9	905.2
72.5°	554.6	617.4	711.6	771.8	795.3
75°	444.8	515.4	604.3	659.3	675.0
77.5°	345.3	413.4	491.8	525.9	520.6
80°	248.5	319.2	374.1	363.7	348.0
82.5°	167.4	225.0	232.8	217.1	211.9
85°	94.2	125.6	109.9	96.8	91.6
87.5°	39.2	34.0	18.3	7.8	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)