

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: P302436

Luminaire Tested: **ZX-WO-60L840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302436
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-60L840-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: 5881.3 lumens
Efficiency: N/A
Efficacy: 133.4 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

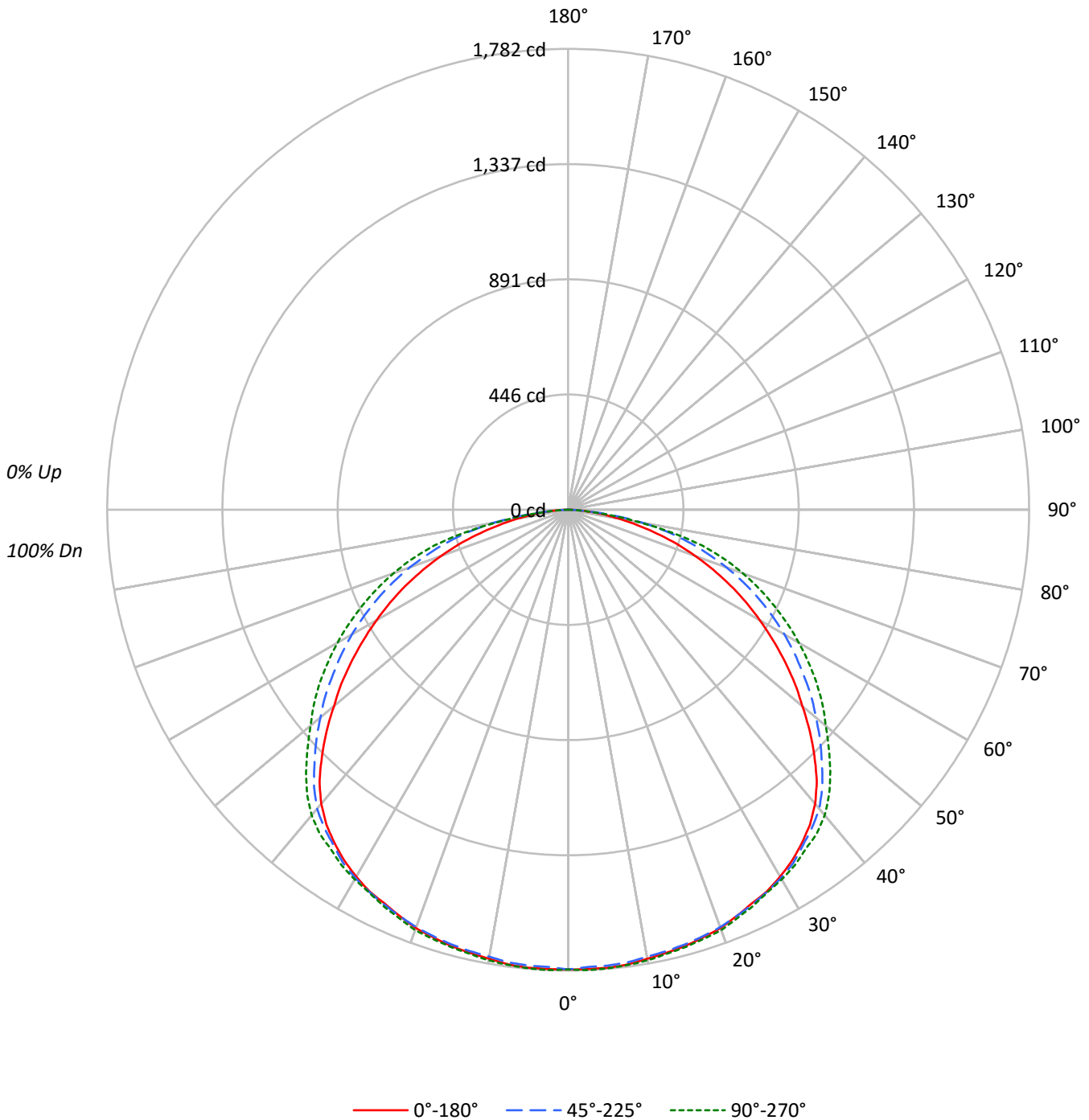
Input Watts (W): 44.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2392	2392	2392
5°	2401	2390	2404
10°	2409	2398	2418
15°	2433	2424	2439
20°	2465	2459	2477
25°	2494	2500	2510
30°	2546	2556	2565
35°	2586	2599	2630
40°	2608	2652	2710
45°	2561	2640	2727
50°	2474	2617	2721
55°	2397	2601	2753
60°	2303	2599	2772
65°	2202	2585	2797
70°	2051	2557	2827
75°	1836	2494	2785
80°	1529	2301	2140
85°	1155	1346	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	2.9
10°-20°	494.1	8.4
20°-30°	779.2	13.2
30°-40°	994.8	16.9
40°-50°	1071.6	18.2
50°-60°	987.4	16.8
60°-70°	789.7	13.4
70°-80°	484.7	8.2
80°-90°	110.6	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°	1442.5	24.5
0°-40°	2437.3	41.4
0°-60°	4496.3	76.5
0°-90°	5881.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5881.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1778	1778	1770	1780	1780	169
15°	1747	1749	1740	1751	1751	494
25°	1680	1682	1684	1693	1691	777
35°	1574	1578	1583	1599	1601	984
45°	1346	1360	1387	1423	1433	1036
55°	1022	1049	1109	1159	1173	913
65°	692	737	812	862	878	683
75°	353	409	480	523	536	376
85°	75	100	87	77	73	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.8	1777.8	1777.8	1777.8	1777.8
2.5°	1777.8	1779.9	1769.5	1779.9	1781.9
5°	1777.8	1777.8	1769.5	1779.9	1779.9
7.5°	1773.6	1773.6	1765.3	1775.7	1775.7
10°	1763.2	1763.2	1754.9	1765.3	1769.5
12.5°	1754.9	1754.9	1748.7	1759.1	1759.1
15°	1746.6	1748.7	1740.4	1750.8	1750.8
17.5°	1734.2	1734.2	1730.0	1738.3	1740.4
20°	1721.7	1721.7	1717.6	1727.9	1730.0
22.5°	1700.9	1703.0	1700.9	1709.2	1709.2
25°	1680.2	1682.3	1684.3	1692.6	1690.6
27.5°	1663.6	1665.6	1665.6	1673.9	1667.7
30°	1638.6	1644.9	1644.9	1649.0	1651.1
32.5°	1609.6	1617.9	1619.9	1628.3	1630.3
35°	1574.3	1578.4	1582.6	1599.2	1601.3
37.5°	1534.8	1545.2	1549.3	1572.2	1578.4
40°	1484.9	1497.4	1509.9	1538.9	1543.1
42.5°	1422.6	1437.2	1453.8	1484.9	1493.3
45°	1345.8	1360.3	1387.3	1422.6	1433.0
47.5°	1266.9	1283.5	1320.9	1358.3	1366.6
50°	1181.7	1206.7	1250.3	1293.9	1300.1
52.5°	1104.9	1129.8	1183.8	1229.5	1239.9
55°	1021.8	1048.8	1109.0	1158.9	1173.4
57.5°	938.7	974.0	1038.4	1088.3	1102.8
60°	855.7	893.0	965.7	1011.4	1030.1
62.5°	774.7	816.2	888.9	940.8	955.4
65°	691.6	737.3	812.0	861.9	878.5
67.5°	606.4	654.2	733.1	783.0	799.6
70°	521.3	575.3	650.1	704.1	718.6
72.5°	440.3	490.1	564.9	612.7	631.4
75°	353.1	409.1	479.8	523.4	535.8
77.5°	274.1	328.1	390.4	417.4	413.3
80°	197.3	253.4	297.0	288.7	276.2
82.5°	132.9	178.6	184.8	172.4	168.2
85°	74.8	99.7	87.2	76.8	72.7
87.5°	31.2	27.0	14.5	6.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)