

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: P302257

Luminaire Tested: **RX-WO-55H840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RX-WO-55H840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (336)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

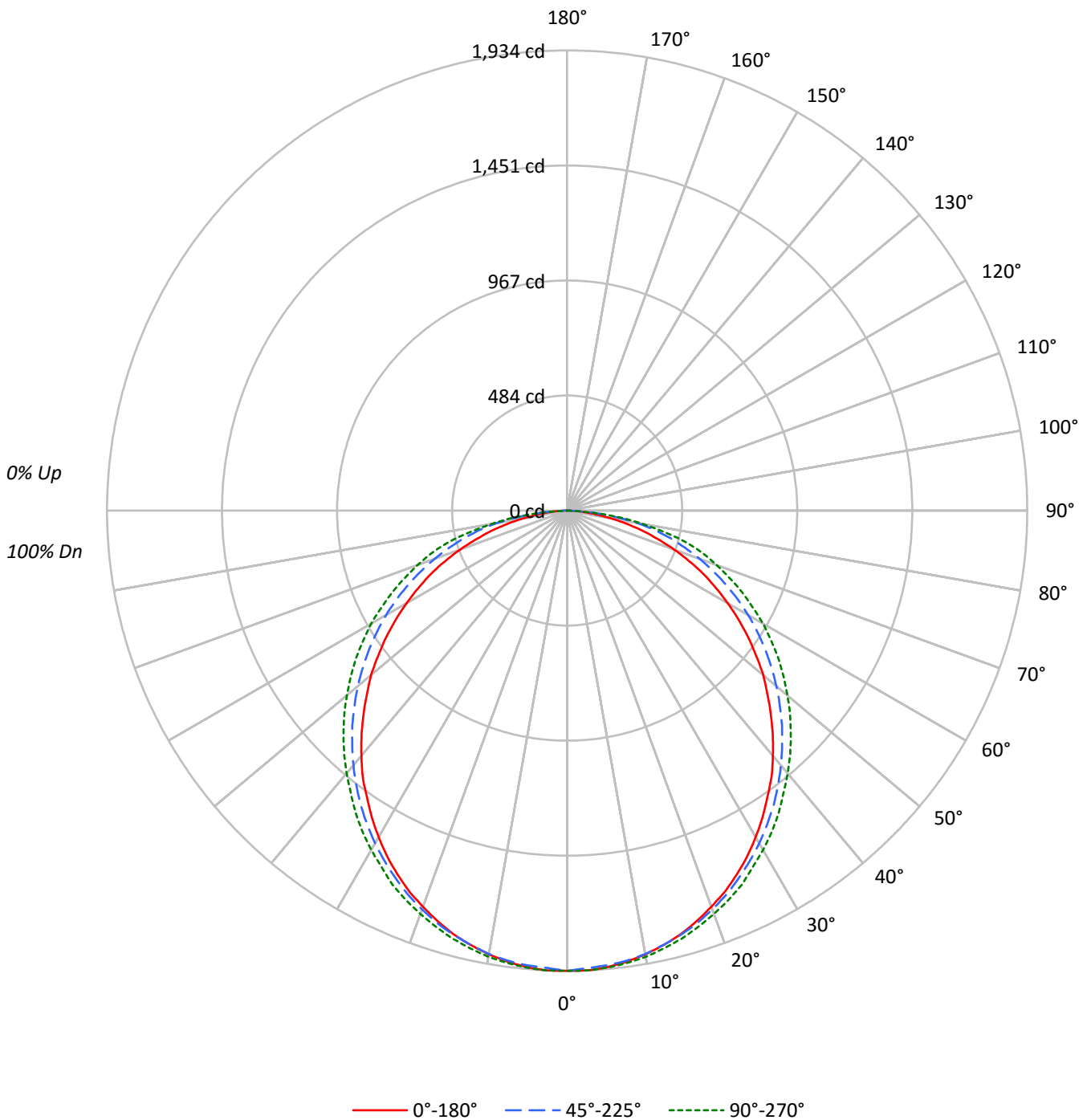
Lumens per Lamp: N/A
Luminaire Lumens: 5630.8 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2603	2603	2603
5°	2602	2591	2605
10°	2588	2585	2602
15°	2569	2571	2594
20°	2537	2554	2583
25°	2505	2532	2576
30°	2462	2509	2559
35°	2411	2484	2547
40°	2363	2455	2532
45°	2304	2430	2529
50°	2252	2403	2530
55°	2179	2382	2543
60°	2100	2365	2560
65°	2017	2343	2580
70°	1883	2326	2626
75°	1714	2331	2707
80°	1418	2306	2493
85°	1087	1831	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	3.2
10°-20°	522.2	9.3
20°-30°	787.8	14.0
30°-40°	945.9	16.8
40°-50°	983.7	17.5
50°-60°	904.7	16.1
60°-70°	721.0	12.8
70°-80°	456.9	8.1
80°-90°	125.7	2.2
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°	1493.0	26.5
0°-40°	2438.9	43.3
0°-60°	4327.2	76.8
0°-90°	5630.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5630.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1926	1926	1918	1928	1928	183
15°	1844	1844	1846	1860	1862	520
25°	1687	1695	1705	1729	1735	777
35°	1468	1484	1512	1540	1550	919
45°	1211	1237	1277	1317	1329	935
55°	929	959	1016	1066	1084	830
65°	633	666	736	792	810	624
75°	330	372	448	505	521	347
85°	70	100	119	117	115	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1934.5	1934.5	1934.5	1934.5	1934.5
2.5°	1934.5	1934.5	1924.4	1934.5	1934.5
5°	1926.4	1926.4	1918.4	1928.4	1928.4
7.5°	1912.4	1914.4	1908.3	1918.4	1918.4
10°	1894.3	1896.3	1892.2	1904.3	1904.3
12.5°	1870.1	1872.1	1870.1	1884.2	1884.2
15°	1844.0	1844.0	1846.0	1860.1	1862.1
17.5°	1809.8	1813.8	1817.8	1833.9	1833.9
20°	1771.6	1777.6	1783.7	1803.8	1803.8
22.5°	1733.4	1739.4	1747.5	1767.6	1771.6
25°	1687.1	1695.2	1705.2	1729.4	1735.4
27.5°	1638.9	1644.9	1661.0	1687.1	1689.1
30°	1584.6	1594.6	1614.7	1640.9	1646.9
32.5°	1528.3	1542.4	1564.5	1594.6	1600.7
35°	1467.9	1484.0	1512.2	1540.3	1550.4
37.5°	1411.6	1423.7	1455.9	1488.1	1494.1
40°	1345.3	1363.4	1397.6	1433.8	1441.8
42.5°	1278.9	1299.0	1337.2	1373.4	1387.5
45°	1210.6	1236.7	1276.9	1317.1	1329.2
47.5°	1142.2	1170.3	1212.6	1256.8	1270.9
50°	1075.8	1102.0	1148.2	1194.5	1208.5
52.5°	1001.4	1031.6	1081.9	1132.1	1146.2
55°	929.0	959.2	1015.5	1065.8	1083.9
57.5°	854.6	888.8	947.1	999.4	1015.5
60°	780.2	816.4	878.8	931.0	951.2
62.5°	705.8	740.0	808.4	860.7	878.8
65°	633.4	665.6	736.0	792.3	810.4
67.5°	555.0	591.2	663.6	721.9	738.0
70°	478.6	514.8	591.2	651.5	667.6
72.5°	400.2	442.4	518.8	577.1	599.2
75°	329.8	372.0	448.4	504.7	520.8
77.5°	255.4	297.6	376.0	416.3	418.3
80°	183.0	231.3	297.6	313.7	321.7
82.5°	120.7	166.9	205.1	225.2	225.2
85°	70.4	100.5	118.6	116.6	114.6
87.5°	26.1	34.2	28.2	20.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)