

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: P302376

Luminaire Tested: **RX-WO-55L840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-41)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RX-WO-55L840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, STANDARD LUMEN PACKAGE.
Light Source: (224)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

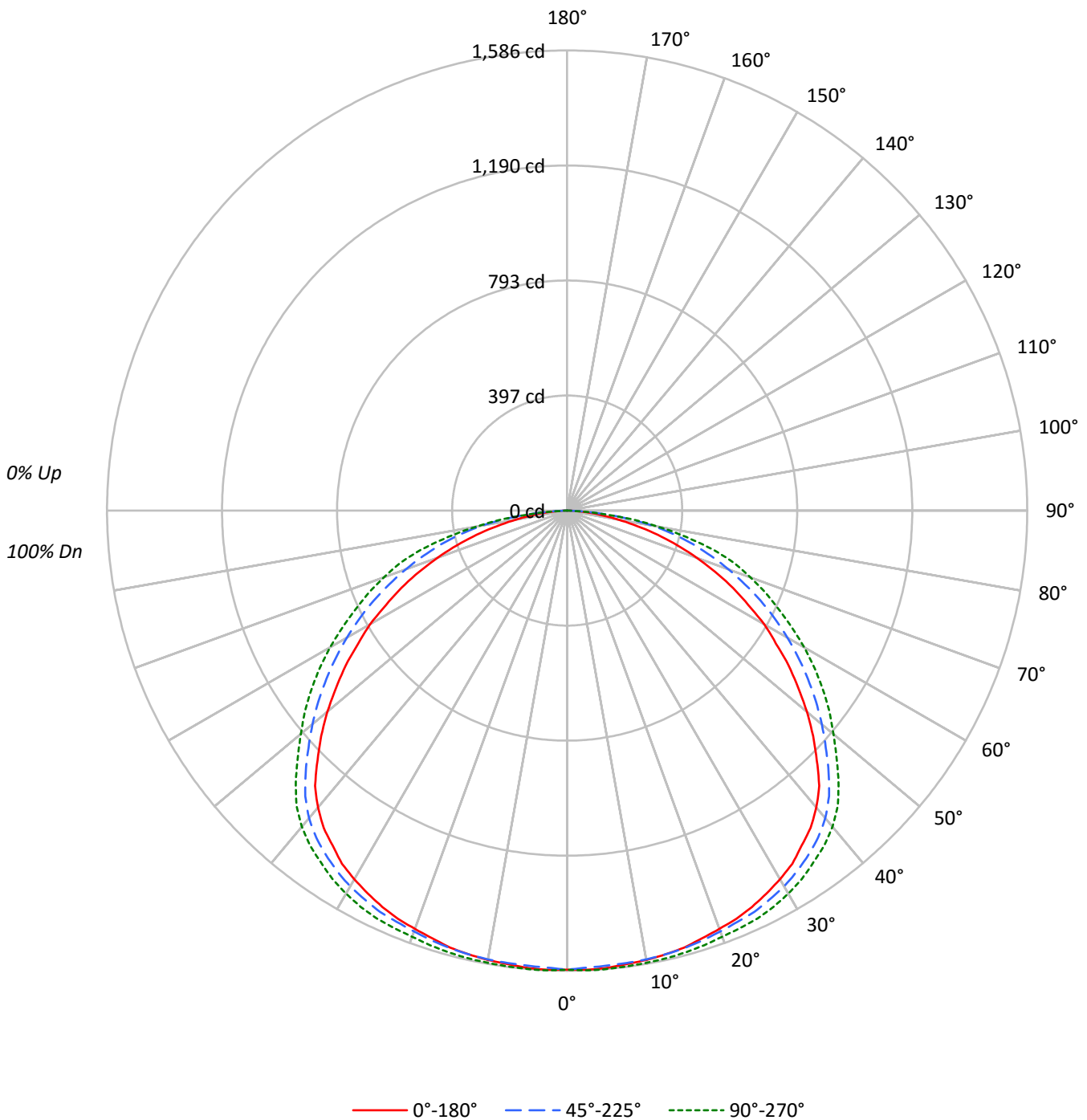
Lumens per Lamp: N/A
Luminaire Lumens: 5388.1 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.43 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.5
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	98	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2129	2129	2129
5°	2137	2127	2142
10°	2149	2146	2162
15°	2172	2175	2196
20°	2197	2210	2238
25°	2238	2266	2303
30°	2279	2324	2369
35°	2315	2381	2432
40°	2347	2431	2499
45°	2316	2426	2517
50°	2258	2398	2507
55°	2187	2377	2525
60°	2111	2359	2540
65°	2008	2344	2558
70°	1868	2329	2640
75°	1679	2339	2708
80°	1385	2309	2473
85°	1010	1721	1602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	2.8
10°-20°	443.0	8.2
20°-30°	705.6	13.1
30°-40°	907.2	16.8
40°-50°	981.0	18.2
50°-60°	902.4	16.7
60°-70°	719.4	13.4
70°-80°	457.0	8.5
80°-90°	121.8	2.3
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°	1299.4	24.1
0°-40°	2206.6	41.0
0°-60°	4089.9	75.9
0°-90°	5388.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5388.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1582	1582	1582	1582	1582	
5°	1582	1582	1575	1584	1586	151
15°	1559	1561	1561	1575	1576	441
25°	1507	1513	1526	1544	1552	696
35°	1409	1425	1450	1476	1480	883
45°	1217	1238	1275	1309	1323	938
55°	932	959	1013	1059	1077	832
65°	631	663	736	790	804	622
75°	323	369	450	510	521	342
85°	65	102	112	112	104	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1582.3	1582.3	1582.3	1582.3	1582.3
2.5°	1584.2	1584.2	1576.5	1586.1	1586.1
5°	1582.3	1582.3	1574.6	1584.2	1586.1
7.5°	1576.5	1578.4	1572.6	1582.3	1584.2
10°	1572.6	1574.6	1570.7	1580.3	1582.3
12.5°	1566.9	1568.8	1566.9	1578.4	1580.3
15°	1559.2	1561.1	1561.1	1574.6	1576.5
17.5°	1545.7	1549.6	1553.4	1568.8	1570.7
20°	1534.2	1538.0	1543.8	1561.1	1563.0
22.5°	1522.7	1526.5	1534.2	1555.3	1557.3
25°	1507.3	1513.0	1526.5	1543.8	1551.5
27.5°	1488.1	1499.6	1511.1	1532.3	1540.0
30°	1466.9	1478.4	1495.7	1518.8	1524.6
32.5°	1443.8	1455.4	1474.6	1499.6	1505.4
35°	1409.2	1424.6	1449.6	1476.5	1480.4
37.5°	1378.5	1393.8	1420.8	1449.6	1455.4
40°	1336.2	1355.4	1384.2	1411.2	1422.7
42.5°	1286.2	1305.4	1336.2	1368.9	1380.4
45°	1217.0	1238.1	1274.7	1309.3	1322.7
47.5°	1149.7	1168.9	1209.3	1249.7	1259.3
50°	1078.6	1101.6	1145.8	1188.1	1197.7
52.5°	1003.6	1032.4	1080.5	1124.7	1140.1
55°	932.4	959.4	1013.2	1059.3	1076.6
57.5°	853.6	886.3	945.9	995.9	1011.3
60°	784.4	813.2	876.7	928.6	944.0
62.5°	703.7	738.3	807.5	859.4	872.8
65°	630.6	663.3	736.3	790.2	803.6
67.5°	551.8	590.2	663.3	719.0	740.2
70°	474.9	515.2	592.1	649.8	671.0
72.5°	398.0	442.2	519.1	578.7	605.6
75°	323.0	369.1	449.9	509.5	521.0
77.5°	248.0	299.9	376.8	419.1	419.1
80°	178.8	230.7	298.0	309.5	319.1
82.5°	119.2	167.3	203.8	215.3	217.2
85°	65.4	101.9	111.5	111.5	103.8
87.5°	25.0	32.7	23.1	11.5	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)