

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: P302355

Luminaire Tested: **RX-WO-50L830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302355
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-50L830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, STANDARD LUMEN PACKAGE.
Light Source: (224)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

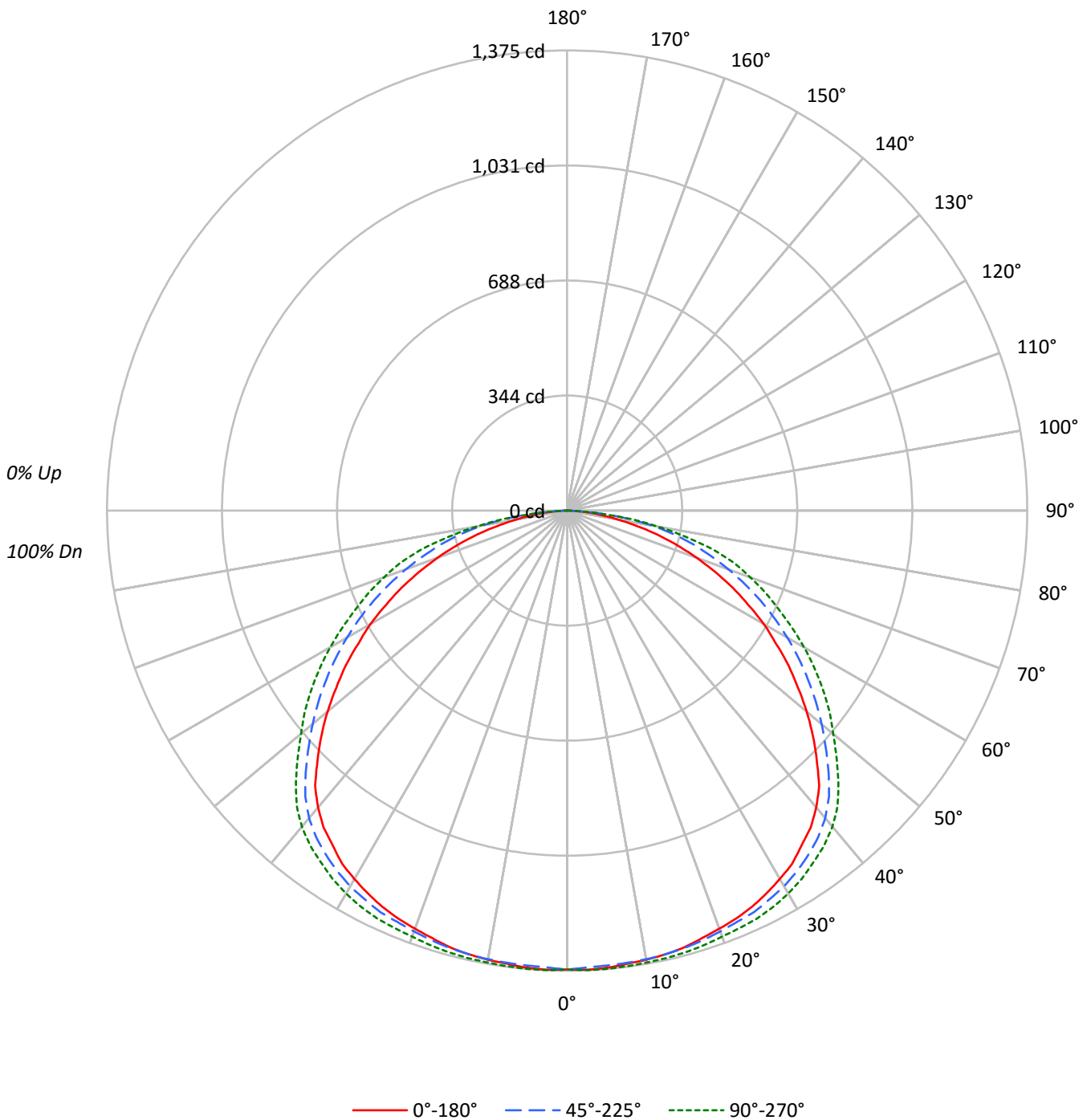
Lumens per Lamp: N/A
Luminaire Lumens: 4669.7 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.43 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.6
Input Voltage (V): 120
Input Current (A_{in}): 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°	1845	1845	1845
5°	1852	1843	1857
10°	1862	1860	1874
15°	1882	1885	1903
20°	1904	1916	1940
25°	1939	1964	1996
30°	1975	2014	2053
35°	2006	2064	2107
40°	2034	2107	2166
45°	2007	2102	2181
50°	1957	2079	2173
55°	1896	2060	2189
60°	1829	2045	2201
65°	1740	2032	2217
70°	1619	2019	2288
75°	1455	2027	2347
80°	1201	2001	2143
85°	875	1491	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	2.8
10°-20°	384.0	8.2
20°-30°	611.6	13.1
30°-40°	786.2	16.8
40°-50°	850.2	18.2
50°-60°	782.0	16.7
60°-70°	623.5	13.4
70°-80°	396.1	8.5
80°-90°	105.5	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°	1126.2	24.1
0°-40°	1912.4	41.0
0°-60°	3544.6	75.9
0°-90°	4669.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4669.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1371	1371	1365	1373	1375	131
15°	1351	1353	1353	1365	1366	382
25°	1306	1311	1323	1338	1345	603
35°	1221	1235	1256	1280	1283	765
45°	1055	1073	1105	1135	1146	813
55°	808	831	878	918	933	721
65°	546	575	638	685	696	539
75°	280	320	390	442	452	296
85°	57	88	97	97	90	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1373.0	1373.0	1366.3	1374.6	1374.6
5°	1371.3	1371.3	1364.6	1373.0	1374.6
7.5°	1366.3	1368.0	1363.0	1371.3	1373.0
10°	1363.0	1364.6	1361.3	1369.6	1371.3
12.5°	1358.0	1359.6	1358.0	1368.0	1369.6
15°	1351.3	1353.0	1353.0	1364.6	1366.3
17.5°	1339.6	1343.0	1346.3	1359.6	1361.3
20°	1329.6	1333.0	1338.0	1353.0	1354.6
22.5°	1319.6	1323.0	1329.6	1348.0	1349.6
25°	1306.3	1311.3	1323.0	1338.0	1344.6
27.5°	1289.7	1299.6	1309.6	1328.0	1334.6
30°	1271.3	1281.3	1296.3	1316.3	1321.3
32.5°	1251.3	1261.3	1278.0	1299.6	1304.6
35°	1221.3	1234.7	1256.3	1279.7	1283.0
37.5°	1194.7	1208.0	1231.3	1256.3	1261.3
40°	1158.0	1174.7	1199.7	1223.0	1233.0
42.5°	1114.7	1131.4	1158.0	1186.3	1196.3
45°	1054.7	1073.0	1104.7	1134.7	1146.4
47.5°	996.4	1013.1	1048.0	1083.0	1091.4
50°	934.7	954.7	993.1	1029.7	1038.1
52.5°	869.8	894.8	936.4	974.7	988.1
55°	808.1	831.4	878.1	918.1	933.1
57.5°	739.8	768.1	819.8	863.1	876.4
60°	679.8	704.8	759.8	804.8	818.1
62.5°	609.8	639.8	699.8	744.8	756.5
65°	546.5	574.8	638.2	684.8	696.5
67.5°	478.2	511.5	574.8	623.2	641.5
70°	411.6	446.5	513.2	563.2	581.5
72.5°	344.9	383.2	449.9	501.5	524.9
75°	279.9	319.9	389.9	441.5	451.5
77.5°	214.9	259.9	326.6	363.2	363.2
80°	155.0	199.9	258.3	268.3	276.6
82.5°	103.3	145.0	176.6	186.6	188.3
85°	56.7	88.3	96.6	96.6	90.0
87.5°	21.7	28.3	20.0	10.0	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)