

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: P302356

Luminaire Tested: **RX-WO-55L830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302356
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-55L830-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

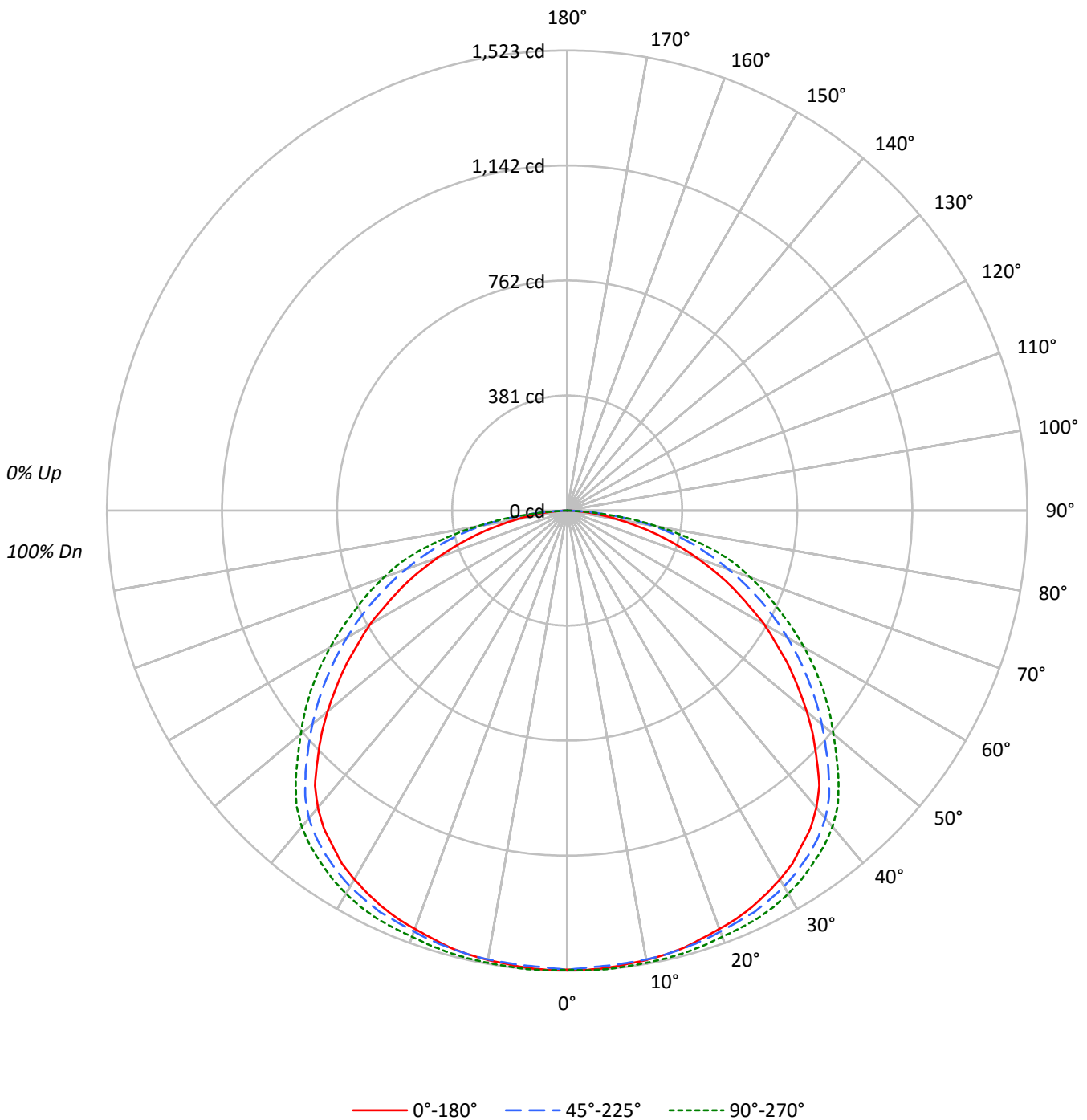
Lumens per Lamp: N/A
Luminaire Lumens: 5174.8 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.43 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2045	2045	2045
5°	2052	2042	2057
10°	2064	2061	2076
15°	2086	2088	2109
20°	2110	2123	2149
25°	2149	2177	2212
30°	2189	2232	2275
35°	2223	2287	2335
40°	2254	2335	2400
45°	2224	2329	2417
50°	2168	2304	2408
55°	2101	2283	2426
60°	2027	2266	2440
65°	1928	2252	2457
70°	1794	2237	2535
75°	1613	2246	2601
80°	1330	2218	2375
85°	969	1653	1539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	2.8
10°-20°	425.5	8.2
20°-30°	677.7	13.1
30°-40°	871.2	16.8
40°-50°	942.1	18.2
50°-60°	866.6	16.7
60°-70°	690.9	13.4
70°-80°	438.9	8.5
80°-90°	116.9	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°	1248.0	24.1
0°-40°	2119.2	41.0
0°-60°	3928.0	75.9
0°-90°	5174.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5174.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1520	1520	1520	1520	1520	
5°	1520	1520	1512	1522	1523	145
15°	1498	1499	1499	1512	1514	423
25°	1448	1453	1466	1483	1490	668
35°	1354	1368	1392	1418	1422	848
45°	1169	1189	1224	1257	1270	901
55°	896	921	973	1017	1034	799
65°	606	637	707	759	772	598
75°	310	354	432	489	500	328
85°	63	98	107	107	100	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1519.6	1519.6	1519.6	1519.6	1519.6
2.5°	1521.5	1521.5	1514.1	1523.3	1523.3
5°	1519.6	1519.6	1512.2	1521.5	1523.3
7.5°	1514.1	1515.9	1510.4	1519.6	1521.5
10°	1510.4	1512.2	1508.6	1517.8	1519.6
12.5°	1504.9	1506.7	1504.9	1515.9	1517.8
15°	1497.5	1499.3	1499.3	1512.2	1514.1
17.5°	1484.6	1488.2	1491.9	1506.7	1508.6
20°	1473.5	1477.2	1482.7	1499.3	1501.2
22.5°	1462.4	1466.1	1473.5	1493.8	1495.6
25°	1447.6	1453.2	1466.1	1482.7	1490.1
27.5°	1429.2	1440.2	1451.3	1471.6	1479.0
30°	1408.8	1419.9	1436.5	1458.7	1464.2
32.5°	1386.7	1397.8	1416.2	1440.2	1445.8
35°	1353.5	1368.2	1392.2	1418.1	1421.8
37.5°	1323.9	1338.7	1364.5	1392.2	1397.8
40°	1283.3	1301.8	1329.4	1355.3	1366.4
42.5°	1235.3	1253.7	1283.3	1314.7	1325.8
45°	1168.8	1189.1	1224.2	1257.4	1270.4
47.5°	1104.2	1122.6	1161.4	1200.2	1209.4
50°	1035.9	1058.0	1100.5	1141.1	1150.3
52.5°	963.9	991.5	1037.7	1080.2	1094.9
55°	895.5	921.4	973.1	1017.4	1034.0
57.5°	819.8	851.2	908.5	956.5	971.2
60°	753.4	781.1	842.0	891.8	906.6
62.5°	675.8	709.0	775.5	825.4	838.3
65°	605.6	637.0	707.2	758.9	771.8
67.5°	529.9	566.9	637.0	690.6	710.9
70°	456.1	494.9	568.7	624.1	644.4
72.5°	382.2	424.7	498.5	555.8	581.6
75°	310.2	354.5	432.1	489.3	500.4
77.5°	238.2	288.0	361.9	402.5	402.5
80°	171.7	221.6	286.2	297.3	306.5
82.5°	114.5	160.6	195.7	206.8	208.6
85°	62.8	97.9	107.1	107.1	99.7
87.5°	24.0	31.4	22.2	11.1	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)