

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: P302414

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302414
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-50L830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (224)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4718.5 lumens
Efficiency: N/A
Efficacy: 122.2 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

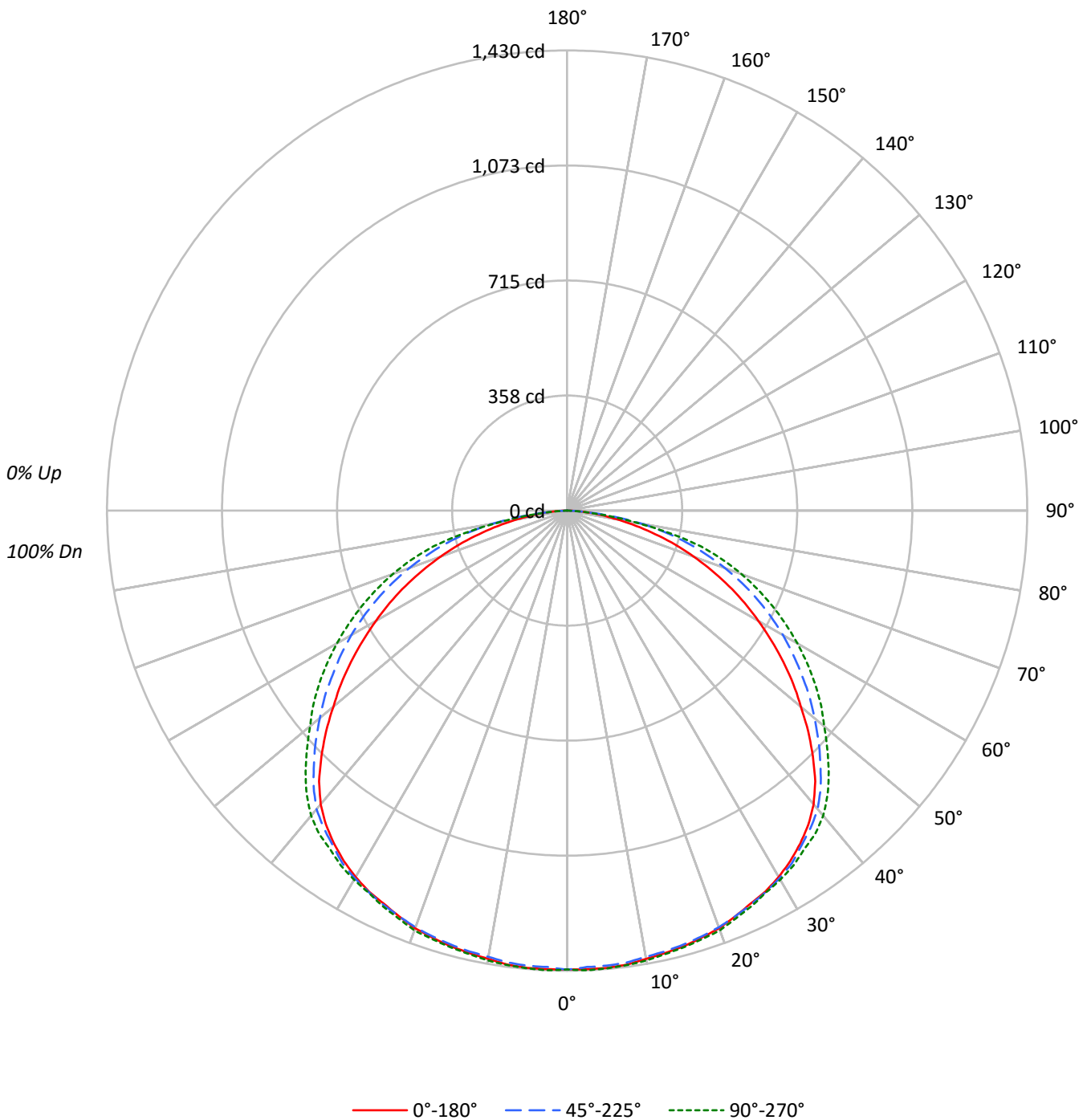
Input Watts (W): 38.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1919	1919	1919
5°	1926	1917	1929
10°	1933	1924	1940
15°	1952	1945	1957
20°	1978	1973	1987
25°	2001	2006	2014
30°	2042	2050	2058
35°	2075	2086	2110
40°	2092	2128	2174
45°	2054	2118	2188
50°	1985	2100	2183
55°	1923	2087	2208
60°	1847	2085	2224
65°	1766	2074	2244
70°	1645	2052	2268
75°	1473	2001	2235
80°	1227	1846	1717
85°	926	1081	900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	2.9
10°-20°	396.4	8.4
20°-30°	625.2	13.2
30°-40°	798.1	16.9
40°-50°	859.7	18.2
50°-60°	792.1	16.8
60°-70°	633.6	13.4
70°-80°	388.9	8.2
80°-90°	88.7	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°	1157.3	24.5
0°-40°	1955.4	41.4
0°-60°	3607.3	76.5
0°-90°	4718.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4718.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1426	1426	1420	1428	1428	136
15°	1401	1403	1396	1405	1405	396
25°	1348	1350	1351	1358	1356	623
35°	1263	1266	1270	1283	1285	790
45°	1080	1091	1113	1141	1150	831
55°	820	841	890	930	941	733
65°	555	592	652	692	705	548
75°	283	328	385	420	430	302
85°	60	80	70	62	58	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.3	1426.3	1426.3	1426.3	1426.3
2.5°	1426.3	1427.9	1419.6	1427.9	1429.6
5°	1426.3	1426.3	1419.6	1427.9	1427.9
7.5°	1422.9	1422.9	1416.3	1424.6	1424.6
10°	1414.6	1414.6	1408.0	1416.3	1419.6
12.5°	1408.0	1408.0	1403.0	1411.3	1411.3
15°	1401.3	1403.0	1396.3	1404.6	1404.6
17.5°	1391.3	1391.3	1388.0	1394.6	1396.3
20°	1381.3	1381.3	1378.0	1386.3	1388.0
22.5°	1364.6	1366.3	1364.6	1371.3	1371.3
25°	1348.0	1349.6	1351.3	1358.0	1356.3
27.5°	1334.6	1336.3	1336.3	1343.0	1338.0
30°	1314.6	1319.6	1319.6	1323.0	1324.6
32.5°	1291.3	1298.0	1299.6	1306.3	1308.0
35°	1263.0	1266.3	1269.7	1283.0	1284.7
37.5°	1231.3	1239.7	1243.0	1261.3	1266.3
40°	1191.3	1201.3	1211.3	1234.7	1238.0
42.5°	1141.4	1153.0	1166.4	1191.3	1198.0
45°	1079.7	1091.4	1113.0	1141.4	1149.7
47.5°	1016.4	1029.7	1059.7	1089.7	1096.4
50°	948.1	968.1	1003.1	1038.1	1043.1
52.5°	886.4	906.4	949.7	986.4	994.7
55°	819.8	841.4	889.8	929.7	941.4
57.5°	753.1	781.5	833.1	873.1	884.8
60°	686.5	716.5	774.8	811.4	826.4
62.5°	621.5	654.8	713.1	754.8	766.5
65°	554.8	591.5	651.5	691.5	704.8
67.5°	486.5	524.9	588.2	628.2	641.5
70°	418.2	461.5	521.5	564.8	576.5
72.5°	353.2	393.2	453.2	491.5	506.5
75°	283.3	328.2	384.9	419.9	429.9
77.5°	219.9	263.3	313.2	334.9	331.6
80°	158.3	203.3	238.3	231.6	221.6
82.5°	106.6	143.3	148.3	138.3	135.0
85°	60.0	80.0	70.0	61.6	58.3
87.5°	25.0	21.7	11.7	5.0	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)