

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: P302424

Luminaire Tested: **ZX-WO-50L835-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302424
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-50L835-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (224)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4810.6 lumens
Efficiency: N/A
Efficacy: 124.6 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

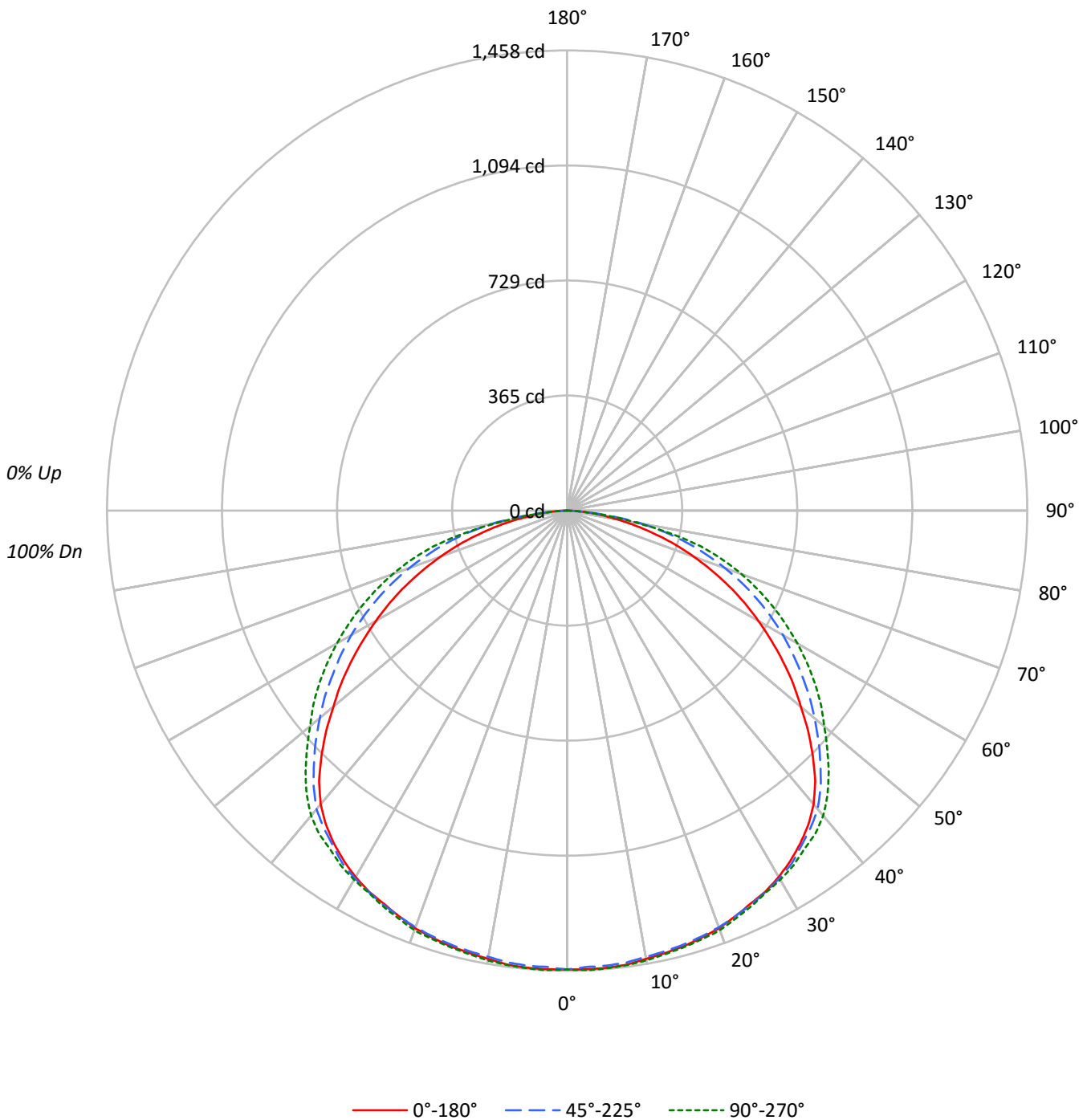
Input Watts (W): 38.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1956	1956	1956
5°	1964	1955	1966
10°	1970	1961	1977
15°	1990	1983	1995
20°	2016	2012	2026
25°	2040	2045	2053
30°	2082	2090	2098
35°	2115	2126	2151
40°	2133	2169	2217
45°	2095	2159	2230
50°	2023	2141	2226
55°	1961	2128	2251
60°	1883	2126	2267
65°	1801	2115	2288
70°	1677	2092	2312
75°	1501	2040	2279
80°	1251	1882	1750
85°	945	1101	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	2.9
10°-20°	404.1	8.4
20°-30°	637.4	13.2
30°-40°	813.7	16.9
40°-50°	876.5	18.2
50°-60°	807.6	16.8
60°-70°	646.0	13.4
70°-80°	396.5	8.2
80°-90°	90.4	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°	1179.9	24.5
0°-40°	1993.6	41.4
0°-60°	3677.7	76.5
0°-90°	4810.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4810.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1454	1454	1447	1456	1456	138
15°	1429	1430	1424	1432	1432	404
25°	1374	1376	1378	1384	1383	636
35°	1288	1291	1294	1308	1310	805
45°	1101	1113	1135	1164	1172	848
55°	836	858	907	948	960	747
65°	566	603	664	705	719	559
75°	289	335	392	428	438	308
85°	61	82	71	63	60	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1454.1	1454.1	1454.1	1454.1	1454.1
2.5°	1454.1	1455.8	1447.3	1455.8	1457.5
5°	1454.1	1454.1	1447.3	1455.8	1455.8
7.5°	1450.7	1450.7	1443.9	1452.4	1452.4
10°	1442.2	1442.2	1435.5	1443.9	1447.3
12.5°	1435.5	1435.5	1430.4	1438.8	1438.8
15°	1428.7	1430.4	1423.6	1432.1	1432.1
17.5°	1418.5	1418.5	1415.1	1421.9	1423.6
20°	1408.3	1408.3	1404.9	1413.4	1415.1
22.5°	1391.3	1393.0	1391.3	1398.1	1398.1
25°	1374.3	1376.0	1377.7	1384.5	1382.8
27.5°	1360.7	1362.4	1362.4	1369.2	1364.1
30°	1340.3	1345.4	1345.4	1348.8	1350.5
32.5°	1316.5	1323.3	1325.0	1331.8	1333.5
35°	1287.7	1291.1	1294.5	1308.0	1309.7
37.5°	1255.4	1263.9	1267.3	1286.0	1291.1
40°	1214.6	1224.8	1235.0	1258.8	1262.2
42.5°	1163.6	1175.5	1189.1	1214.6	1221.4
45°	1100.8	1112.7	1134.8	1163.6	1172.1
47.5°	1036.2	1049.8	1080.4	1111.0	1117.8
50°	966.6	987.0	1022.7	1058.3	1063.4
52.5°	903.7	924.1	968.3	1005.7	1014.2
55°	835.8	857.9	907.1	947.9	959.8
57.5°	767.8	796.7	849.4	890.1	902.0
60°	699.9	730.5	789.9	827.3	842.6
62.5°	633.6	667.6	727.1	769.5	781.4
65°	565.7	603.1	664.2	705.0	718.6
67.5°	496.0	535.1	599.7	640.4	654.0
70°	426.4	470.6	531.7	575.9	587.8
72.5°	360.1	400.9	462.1	501.1	516.4
75°	288.8	334.7	392.4	428.1	438.3
77.5°	224.2	268.4	319.4	341.5	338.1
80°	161.4	207.2	242.9	236.1	225.9
82.5°	108.7	146.1	151.2	141.0	137.6
85°	61.2	81.5	71.3	62.9	59.5
87.5°	25.5	22.1	11.9	5.1	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)