

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: P302423

Luminaire Tested: **ZX-WO-45L835-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302423
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-45L835-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (168)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4389.5 lumens
Efficiency: N/A
Efficacy: 124.3 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

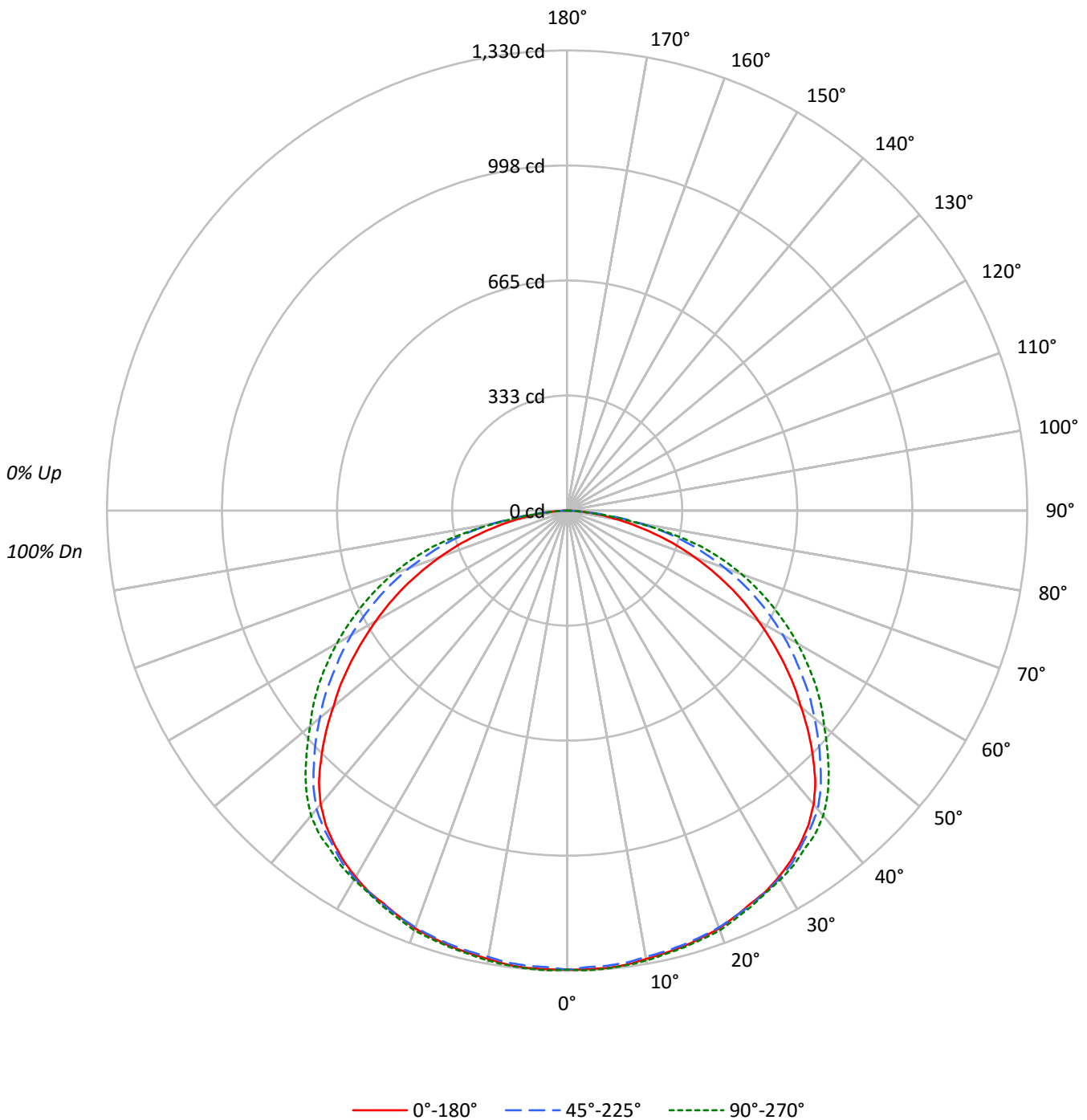
Input Watts (W): 35.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1785	1785	1785
5°	1792	1784	1794
10°	1798	1790	1804
15°	1816	1809	1820
20°	1840	1835	1849
25°	1862	1866	1873
30°	1900	1907	1915
35°	1930	1940	1963
40°	1947	1979	2023
45°	1911	1970	2035
50°	1846	1953	2031
55°	1789	1942	2054
60°	1718	1940	2069
65°	1643	1930	2088
70°	1531	1909	2110
75°	1370	1862	2079
80°	1141	1718	1598
85°	861	1005	838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	2.9
10°-20°	368.7	8.4
20°-30°	581.6	13.2
30°-40°	742.5	16.9
40°-50°	799.8	18.2
50°-60°	736.9	16.8
60°-70°	589.4	13.4
70°-80°	361.8	8.2
80°-90°	82.6	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°	1076.6	24.5
0°-40°	1819.1	41.4
0°-60°	3355.8	76.4
0°-90°	4389.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4389.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1327	1327	1321	1328	1328	126
15°	1304	1305	1299	1307	1307	369
25°	1254	1256	1257	1263	1262	580
35°	1175	1178	1181	1194	1195	735
45°	1004	1015	1035	1062	1070	773
55°	763	783	828	865	876	682
65°	516	550	606	643	656	510
75°	264	305	358	391	400	281
85°	56	74	65	57	54	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.9	1326.9	1326.9	1326.9	1326.9
2.5°	1326.9	1328.4	1320.6	1328.4	1330.0
5°	1326.9	1326.9	1320.6	1328.4	1328.4
7.5°	1323.7	1323.7	1317.5	1325.3	1325.3
10°	1316.0	1316.0	1309.8	1317.5	1320.6
12.5°	1309.8	1309.8	1305.1	1312.9	1312.9
15°	1303.6	1305.1	1298.9	1306.7	1306.7
17.5°	1294.3	1294.3	1291.2	1297.4	1298.9
20°	1285.0	1285.0	1281.9	1289.6	1291.2
22.5°	1269.5	1271.0	1269.5	1275.7	1275.7
25°	1254.0	1255.5	1257.1	1263.3	1261.7
27.5°	1241.6	1243.1	1243.1	1249.3	1244.7
30°	1223.0	1227.6	1227.6	1230.7	1232.3
32.5°	1201.3	1207.5	1209.0	1215.2	1216.8
35°	1174.9	1178.0	1181.1	1193.5	1195.1
37.5°	1145.5	1153.2	1156.3	1173.4	1178.0
40°	1108.3	1117.6	1126.9	1148.6	1151.7
42.5°	1061.8	1072.6	1085.0	1108.3	1114.5
45°	1004.4	1015.3	1035.4	1061.8	1069.5
47.5°	945.5	957.9	985.8	1013.7	1019.9
50°	882.0	900.6	933.1	965.7	970.3
52.5°	824.6	843.2	883.5	917.6	925.4
55°	762.6	782.8	827.7	864.9	875.8
57.5°	700.6	727.0	775.0	812.2	823.1
60°	638.6	666.5	720.8	754.9	768.8
62.5°	578.2	609.2	663.4	702.2	713.0
65°	516.2	550.3	606.1	643.3	655.7
67.5°	452.6	488.3	547.2	584.4	596.8
70°	389.1	429.4	485.2	525.5	536.3
72.5°	328.6	365.8	421.6	457.3	471.2
75°	263.5	305.4	358.1	390.6	399.9
77.5°	204.6	244.9	291.4	311.6	308.5
80°	147.3	189.1	221.7	215.5	206.2
82.5°	99.2	133.3	138.0	128.7	125.6
85°	55.8	74.4	65.1	57.4	54.3
87.5°	23.3	20.2	10.9	4.7	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)