

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: P302433

Luminaire Tested: **ZX-WO-45L840-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302433  
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-45L840-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (168)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

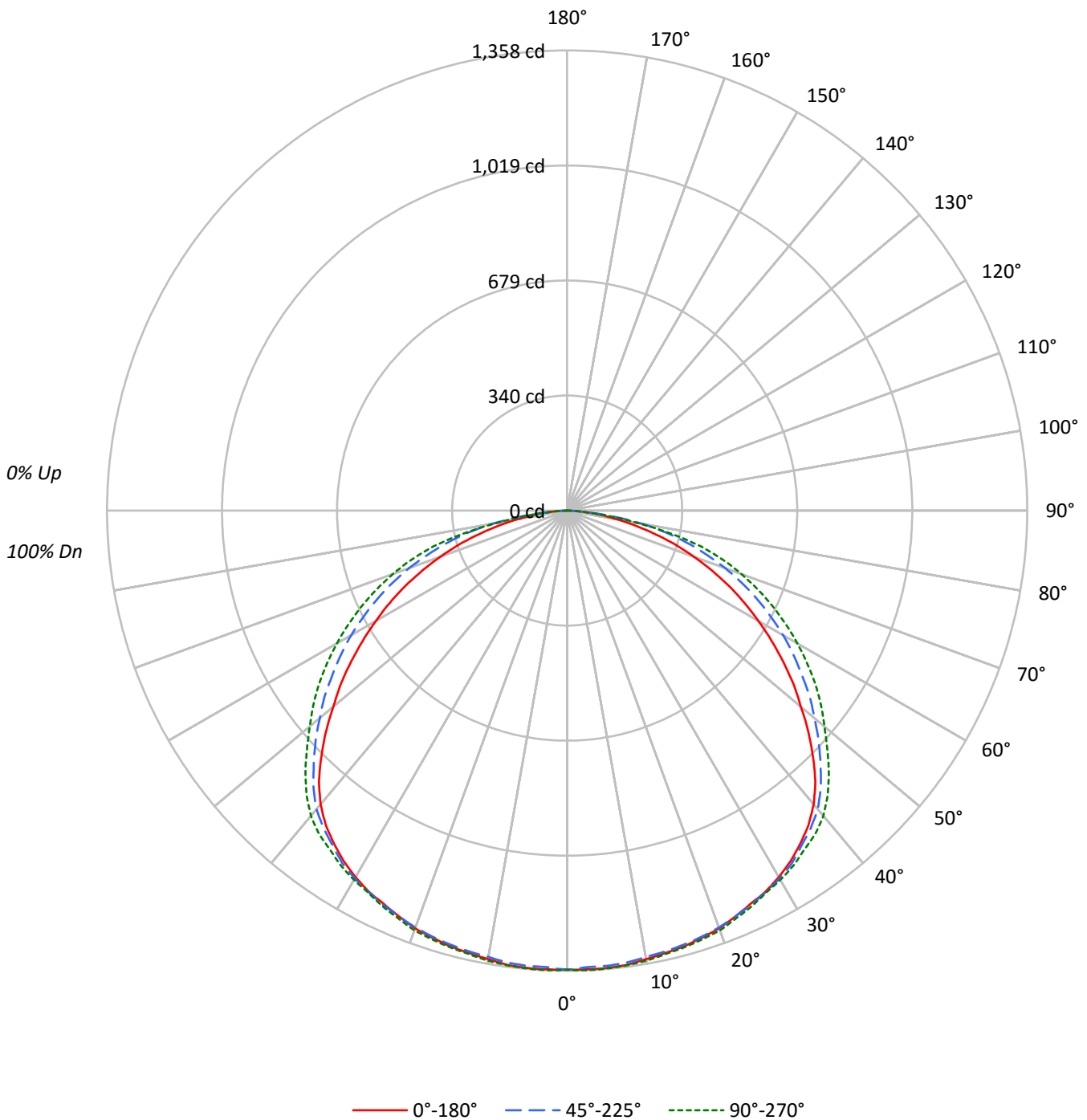
Lumens per Lamp: N/A  
Luminaire Lumens: 4482.9 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	1823	1823	1823
5°	1830	1822	1832
10°	1836	1828	1843
15°	1854	1848	1859
20°	1879	1875	1888
25°	1901	1906	1913
30°	1940	1948	1955
35°	1971	1981	2005
40°	1988	2021	2066
45°	1952	2012	2078
50°	1885	1995	2074
55°	1827	1983	2098
60°	1755	1981	2113
65°	1678	1971	2132
70°	1563	1949	2155
75°	1399	1901	2123
80°	1165	1754	1631
85°	880	1027	855



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.9	2.9
10°-20°	376.6	8.4
20°-30°	594.0	13.2
30°-40°	758.3	16.9
40°-50°	816.8	18.2
50°-60°	752.6	16.8
60°-70°	601.9	13.4
70°-80°	369.5	8.2
80°-90°	84.3	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°	1099.5	24.5
0°-40°	1857.8	41.4
0°-60°	3427.2	76.5
0°-90°	4482.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1355	1355	1349	1357	1357	129
15°	1331	1333	1327	1334	1334	376
25°	1281	1282	1284	1290	1289	592
35°	1200	1203	1206	1219	1220	750
45°	1026	1037	1058	1084	1092	790
55°	779	799	845	883	894	696
65°	527	562	619	657	670	521
75°	269	312	366	399	408	287
85°	57	76	66	59	55	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1355.1	1355.1	1355.1	1355.1	1355.1
2.5°	1355.1	1356.6	1348.7	1356.6	1358.2
5°	1355.1	1355.1	1348.7	1356.6	1356.6
7.5°	1351.9	1351.9	1345.6	1353.5	1353.5
10°	1344.0	1344.0	1337.7	1345.6	1348.7
12.5°	1337.7	1337.7	1332.9	1340.8	1340.8
15°	1331.3	1332.9	1326.6	1334.5	1334.5
17.5°	1321.8	1321.8	1318.7	1325.0	1326.6
20°	1312.3	1312.3	1309.2	1317.1	1318.7
22.5°	1296.5	1298.1	1296.5	1302.8	1302.8
25°	1280.7	1282.2	1283.8	1290.2	1288.6
27.5°	1268.0	1269.6	1269.6	1275.9	1271.2
30°	1249.0	1253.8	1253.8	1256.9	1258.5
32.5°	1226.8	1233.2	1234.8	1241.1	1242.7
35°	1199.9	1203.1	1206.3	1218.9	1220.5
37.5°	1169.9	1177.8	1180.9	1198.3	1203.1
40°	1131.9	1141.4	1150.9	1173.0	1176.2
42.5°	1084.4	1095.4	1108.1	1131.9	1138.2
45°	1025.8	1036.9	1057.5	1084.4	1092.3
47.5°	965.6	978.3	1006.8	1035.3	1041.6
50°	900.7	919.7	953.0	986.2	991.0
52.5°	842.2	861.2	902.3	937.1	945.1
55°	778.8	799.4	845.3	883.3	894.4
57.5°	715.5	742.4	791.5	829.5	840.6
60°	652.2	680.7	736.1	770.9	785.2
62.5°	590.5	622.1	677.5	717.1	728.2
65°	527.1	562.0	619.0	657.0	669.6
67.5°	462.2	498.7	558.8	596.8	609.5
70°	397.3	438.5	495.5	536.6	547.7
72.5°	335.6	373.6	430.6	467.0	481.2
75°	269.1	311.9	365.7	398.9	408.4
77.5°	209.0	250.1	297.6	318.2	315.0
80°	150.4	193.1	226.4	220.0	210.5
82.5°	101.3	136.1	140.9	131.4	128.2
85°	57.0	76.0	66.5	58.6	55.4
87.5°	23.7	20.6	11.1	4.7	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)