

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: P302374

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302374  
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-45L840-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
ROUND LENS, STANDARD LUMEN PACKAGE.  
Light Source: (168)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

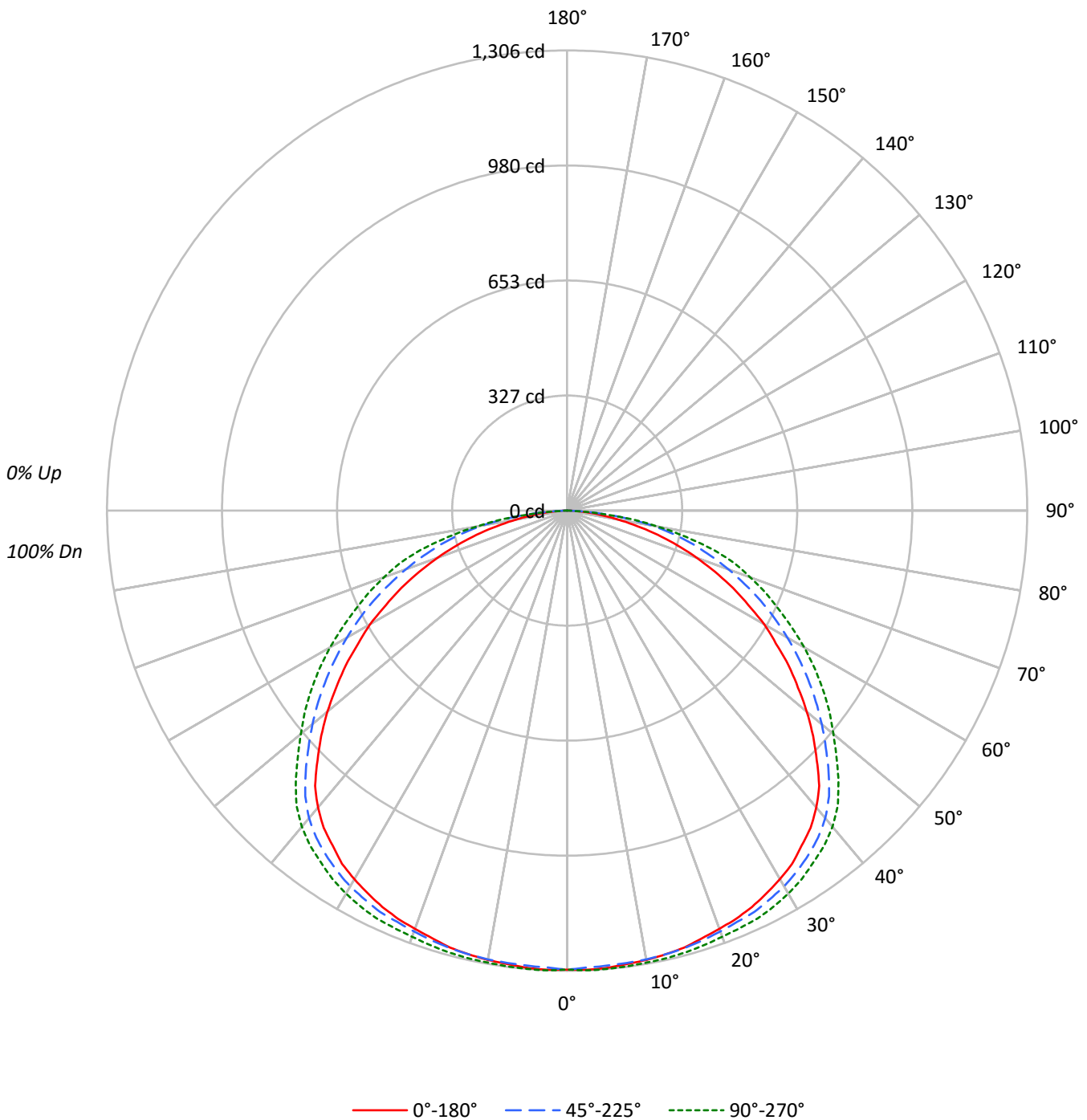
Lumens per Lamp: N/A  
Luminaire Lumens: 4436.5 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 1.38 / 1.43 / 1.51  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	1753	1753	1753
5°	1760	1751	1764
10°	1769	1767	1780
15°	1788	1791	1808
20°	1809	1820	1843
25°	1843	1866	1897
30°	1876	1913	1950
35°	1906	1961	2002
40°	1932	2002	2057
45°	1907	1997	2072
50°	1859	1975	2064
55°	1801	1957	2080
60°	1738	1943	2092
65°	1653	1930	2107
70°	1538	1918	2174
75°	1382	1926	2230
80°	1141	1901	2036
85°	831	1417	1320



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.1	2.8
10°-20°	364.8	8.2
20°-30°	581.0	13.1
30°-40°	747.0	16.8
40°-50°	807.7	18.2
50°-60°	743.0	16.7
60°-70°	592.3	13.4
70°-80°	376.3	8.5
80°-90°	100.3	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°	1069.9	24.1
0°-40°	1816.9	41.0
0°-60°	3367.6	75.9
0°-90°	4436.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4436.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1303	1303	1303	1303	1303	
5°	1303	1303	1296	1304	1306	124
15°	1284	1285	1285	1296	1298	363
25°	1241	1246	1257	1271	1278	573
35°	1160	1173	1194	1216	1219	727
45°	1002	1020	1050	1078	1089	773
55°	768	790	834	872	886	685
65°	519	546	606	651	662	512
75°	266	304	370	420	429	281
85°	54	84	92	92	86	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1302.8	1302.8	1302.8	1302.8	1302.8
2.5°	1304.4	1304.4	1298.1	1306.0	1306.0
5°	1302.8	1302.8	1296.5	1304.4	1306.0
7.5°	1298.1	1299.7	1294.9	1302.8	1304.4
10°	1294.9	1296.5	1293.3	1301.2	1302.8
12.5°	1290.2	1291.7	1290.2	1299.7	1301.2
15°	1283.8	1285.4	1285.4	1296.5	1298.1
17.5°	1272.7	1275.9	1279.1	1291.7	1293.3
20°	1263.2	1266.4	1271.2	1285.4	1287.0
22.5°	1253.8	1256.9	1263.2	1280.7	1282.2
25°	1241.1	1245.8	1256.9	1271.2	1277.5
27.5°	1225.3	1234.8	1244.3	1261.7	1268.0
30°	1207.8	1217.3	1231.6	1250.6	1255.3
32.5°	1188.8	1198.3	1214.2	1234.8	1239.5
35°	1160.4	1173.0	1193.6	1215.8	1218.9
37.5°	1135.0	1147.7	1169.9	1193.6	1198.3
40°	1100.2	1116.0	1139.8	1161.9	1171.4
42.5°	1059.0	1074.9	1100.2	1127.1	1136.6
45°	1002.1	1019.5	1049.5	1078.0	1089.1
47.5°	946.6	962.5	995.7	1029.0	1036.9
50°	888.1	907.1	943.5	978.3	986.2
52.5°	826.3	850.1	889.7	926.1	938.7
55°	767.8	789.9	834.3	872.2	886.5
57.5°	702.9	729.8	778.8	820.0	832.7
60°	645.9	669.6	721.9	764.6	777.3
62.5°	579.4	607.9	664.9	707.6	718.7
65°	519.2	546.1	606.3	650.6	661.7
67.5°	454.3	486.0	546.1	592.0	609.5
70°	391.0	424.2	487.6	535.1	552.5
72.5°	327.7	364.1	427.4	476.5	498.7
75°	265.9	303.9	370.4	419.5	429.0
77.5°	204.2	247.0	310.3	345.1	345.1
80°	147.2	190.0	245.4	254.9	262.8
82.5°	98.1	137.7	167.8	177.3	178.9
85°	53.8	83.9	91.8	91.8	85.5
87.5°	20.6	26.9	19.0	9.5	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)