

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: P302246

Luminaire Tested: **RX-WO-50H835-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RX-WO-50H835-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (336)3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

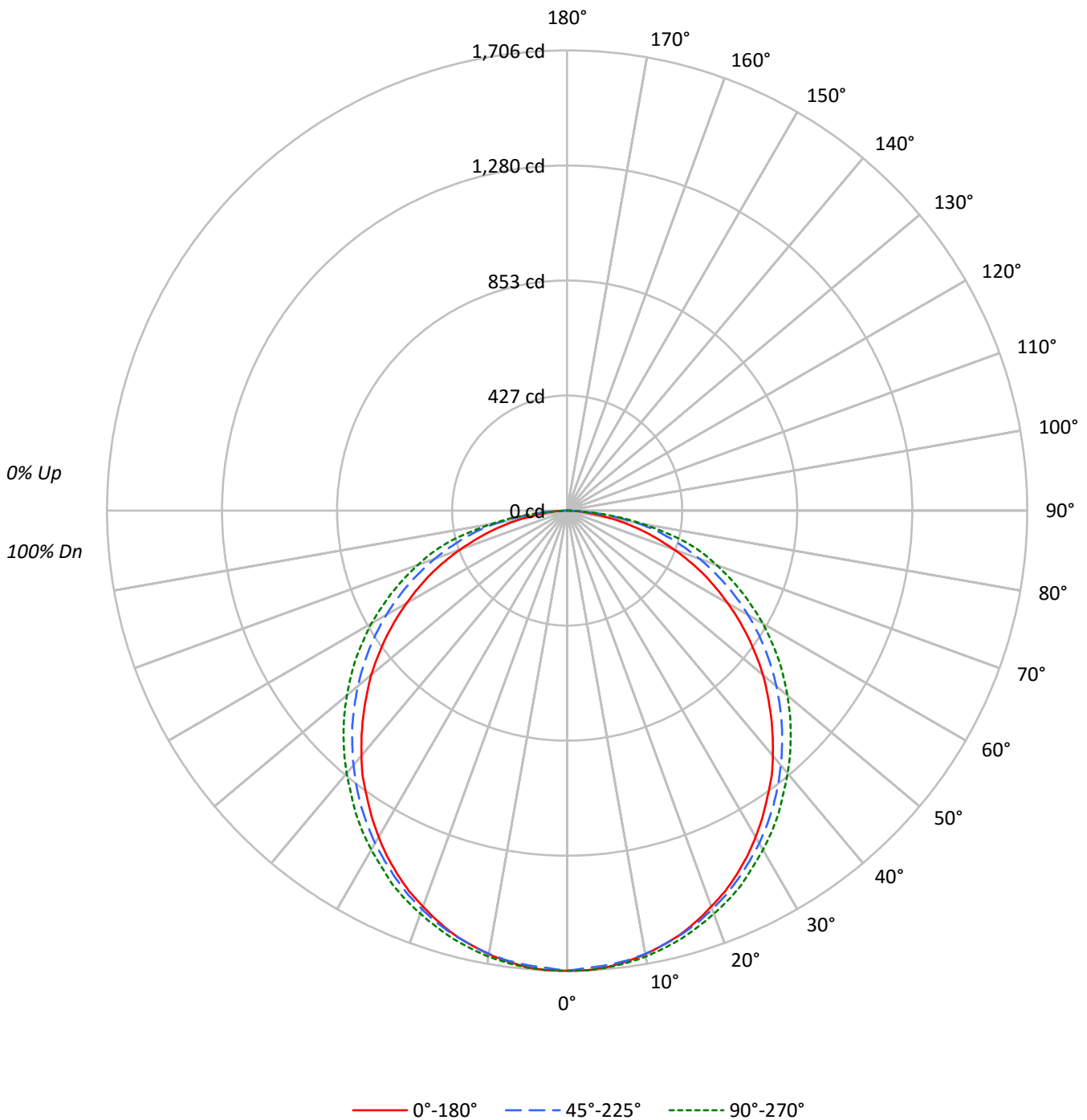
Lumens per Lamp: N/A  
Luminaire Lumens: 4965.7 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2295	2295	2295
5°	2295	2285	2297
10°	2282	2280	2294
15°	2265	2268	2287
20°	2237	2252	2278
25°	2209	2233	2272
30°	2171	2212	2257
35°	2126	2190	2246
40°	2084	2165	2233
45°	2031	2143	2230
50°	1986	2120	2231
55°	1922	2101	2242
60°	1852	2086	2257
65°	1778	2066	2275
70°	1661	2051	2316
75°	1512	2056	2388
80°	1251	2034	2198
85°	959	1615	1561



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	3.2
10°-20°	460.6	9.3
20°-30°	694.8	14.0
30°-40°	834.1	16.8
40°-50°	867.5	17.5
50°-60°	797.8	16.1
60°-70°	635.9	12.8
70°-80°	402.9	8.1
80°-90°	110.8	2.2
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°	1316.6	26.5
0°-40°	2150.8	43.3
0°-60°	3816.1	76.8
0°-90°	4965.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4965.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1699	1699	1692	1701	1701	161
15°	1626	1626	1628	1640	1642	458
25°	1488	1495	1504	1525	1530	685
35°	1295	1309	1334	1358	1367	811
45°	1068	1091	1126	1162	1172	824
55°	819	846	896	940	956	732
65°	559	587	649	699	715	551
75°	291	328	396	445	459	306
85°	62	89	105	103	101	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1706.0	1706.0	1706.0	1706.0	1706.0
2.5°	1706.0	1706.0	1697.1	1706.0	1706.0
5°	1698.9	1698.9	1691.8	1700.7	1700.7
7.5°	1686.5	1688.2	1682.9	1691.8	1691.8
10°	1670.5	1672.3	1668.7	1679.4	1679.4
12.5°	1649.2	1651.0	1649.2	1661.6	1661.6
15°	1626.2	1626.2	1627.9	1640.4	1642.1
17.5°	1596.0	1599.6	1603.1	1617.3	1617.3
20°	1562.3	1567.6	1573.0	1590.7	1590.7
22.5°	1528.6	1534.0	1541.0	1558.8	1562.3
25°	1487.8	1494.9	1503.8	1525.1	1530.4
27.5°	1445.3	1450.6	1464.8	1487.8	1489.6
30°	1397.4	1406.3	1424.0	1447.1	1452.4
32.5°	1347.8	1360.2	1379.7	1406.3	1411.6
35°	1294.6	1308.7	1333.6	1358.4	1367.3
37.5°	1244.9	1255.5	1283.9	1312.3	1317.6
40°	1186.4	1202.3	1232.5	1264.4	1271.5
42.5°	1127.9	1145.6	1179.3	1211.2	1223.6
45°	1067.6	1090.6	1126.1	1161.6	1172.2
47.5°	1007.3	1032.1	1069.3	1108.3	1120.8
50°	948.7	971.8	1012.6	1053.4	1065.8
52.5°	883.1	909.7	954.1	998.4	1010.8
55°	819.3	845.9	895.5	939.9	955.8
57.5°	753.7	783.8	835.3	881.4	895.5
60°	688.1	720.0	775.0	821.1	838.8
62.5°	622.4	652.6	712.9	759.0	775.0
65°	558.6	587.0	649.0	698.7	714.7
67.5°	489.4	521.4	585.2	636.6	650.8
70°	422.1	454.0	521.4	574.6	588.8
72.5°	352.9	390.1	457.5	509.0	528.5
75°	290.8	328.1	395.5	445.1	459.3
77.5°	225.2	262.5	331.6	367.1	368.9
80°	161.4	203.9	262.5	276.6	283.7
82.5°	106.4	147.2	180.9	198.6	198.6
85°	62.1	88.7	104.6	102.9	101.1
87.5°	23.1	30.1	24.8	17.7	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)