

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: P302305

Luminaire Tested: **ZX-WO-45H835-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302305  
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: ZX-WO-45H835-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (252)3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

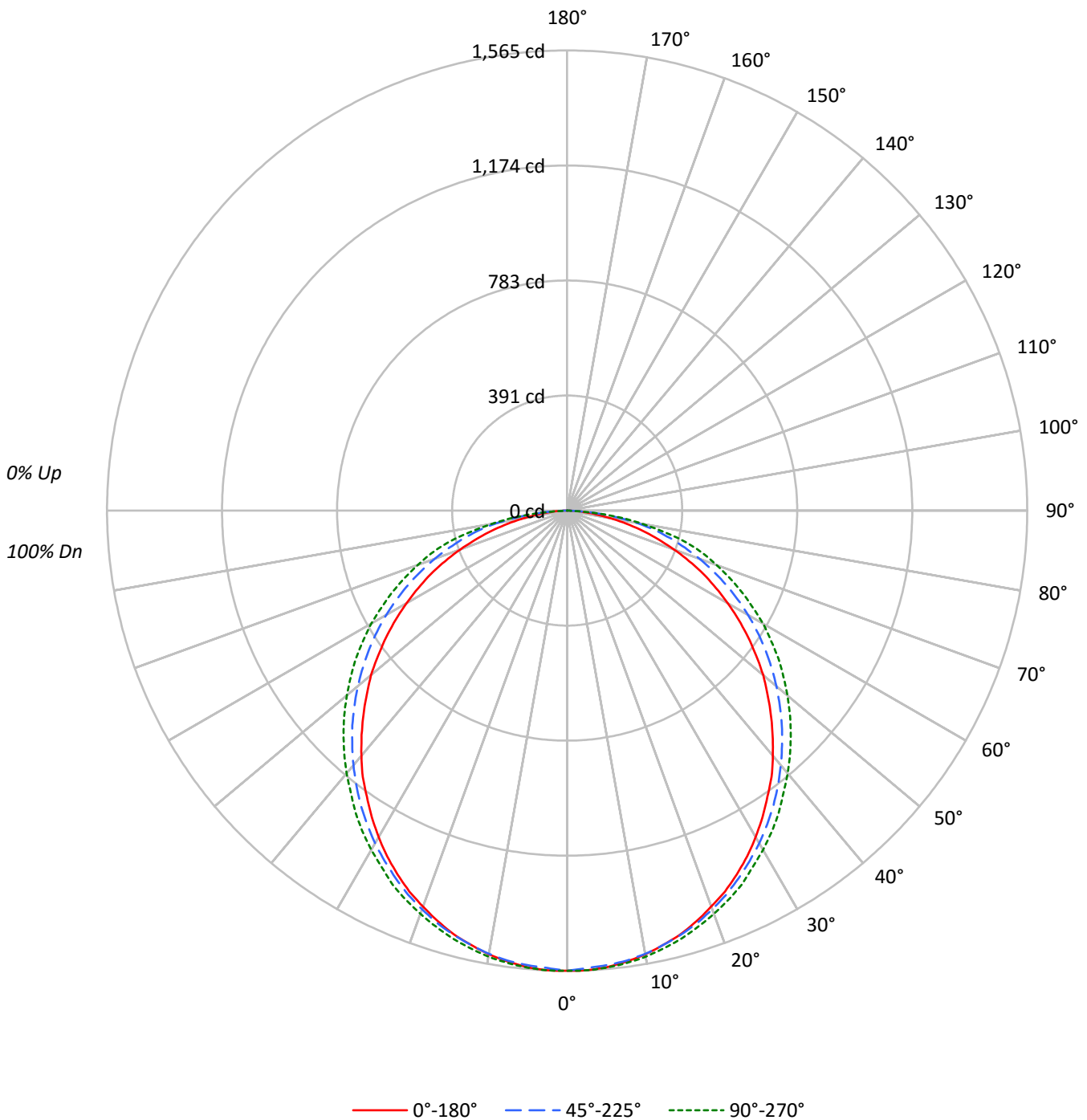
Lumens per Lamp: N/A  
Luminaire Lumens: 4555.6 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.5  
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°	2106	2106	2106
5°	2105	2096	2107
10°	2094	2092	2105
15°	2078	2080	2098
20°	2052	2066	2089
25°	2026	2048	2084
30°	1992	2030	2070
35°	1951	2009	2060
40°	1912	1986	2049
45°	1864	1966	2046
50°	1822	1945	2047
55°	1763	1927	2057
60°	1699	1913	2071
65°	1632	1896	2087
70°	1523	1882	2125
75°	1387	1886	2191
80°	1147	1866	2017
85°	878	1482	1431



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.0	3.2
10°-20°	422.5	9.3
20°-30°	637.4	14.0
30°-40°	765.2	16.8
40°-50°	795.9	17.5
50°-60°	731.9	16.1
60°-70°	583.3	12.8
70°-80°	369.6	8.1
80°-90°	101.7	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°	1207.9	26.5
0°-40°	1973.2	43.3
0°-60°	3500.9	76.8
0°-90°	4555.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4555.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1559	1559	1552	1560	1560	148
15°	1492	1492	1494	1505	1506	420
25°	1365	1372	1380	1399	1404	629
35°	1188	1201	1223	1246	1254	744
45°	979	1001	1033	1066	1075	756
55°	752	776	822	862	877	672
65°	512	538	596	641	656	505
75°	267	301	363	408	421	281
85°	57	81	96	94	93	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1565.1	1565.1	1565.1	1565.1	1565.1
2.5°	1565.1	1565.1	1557.0	1565.1	1565.1
5°	1558.6	1558.6	1552.1	1560.2	1560.2
7.5°	1547.2	1548.8	1543.9	1552.1	1552.1
10°	1532.6	1534.2	1530.9	1540.7	1540.7
12.5°	1513.0	1514.7	1513.0	1524.4	1524.4
15°	1491.9	1491.9	1493.5	1504.9	1506.5
17.5°	1464.2	1467.5	1470.7	1483.7	1483.7
20°	1433.3	1438.2	1443.1	1459.3	1459.3
22.5°	1402.4	1407.3	1413.8	1430.1	1433.3
25°	1365.0	1371.5	1379.6	1399.1	1404.0
27.5°	1325.9	1330.8	1343.8	1365.0	1366.6
30°	1282.0	1290.1	1306.4	1327.6	1332.4
32.5°	1236.5	1247.8	1265.7	1290.1	1295.0
35°	1187.6	1200.7	1223.4	1246.2	1254.4
37.5°	1142.1	1151.9	1177.9	1203.9	1208.8
40°	1088.4	1103.0	1130.7	1160.0	1166.5
42.5°	1034.7	1051.0	1081.9	1111.2	1122.6
45°	979.4	1000.6	1033.1	1065.6	1075.4
47.5°	924.1	946.9	981.0	1016.8	1028.2
50°	870.4	891.5	929.0	966.4	977.8
52.5°	810.2	834.6	875.3	916.0	927.3
55°	751.6	776.0	821.6	862.3	876.9
57.5°	691.4	719.1	766.3	808.6	821.6
60°	631.2	660.5	711.0	753.3	769.5
62.5°	571.0	598.7	654.0	696.3	711.0
65°	512.5	538.5	595.5	641.0	655.6
67.5°	449.0	478.3	536.9	584.1	597.1
70°	387.2	416.5	478.3	527.1	540.1
72.5°	323.8	357.9	419.7	466.9	484.8
75°	266.8	301.0	362.8	408.4	421.4
77.5°	206.6	240.8	304.2	336.8	338.4
80°	148.0	187.1	240.8	253.8	260.3
82.5°	97.6	135.0	165.9	182.2	182.2
85°	56.9	81.3	96.0	94.4	92.7
87.5°	21.1	27.7	22.8	16.3	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)