

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: P302310

Luminaire Tested: **ZX-WO-70H835-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302310  
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-70H835-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (588)3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

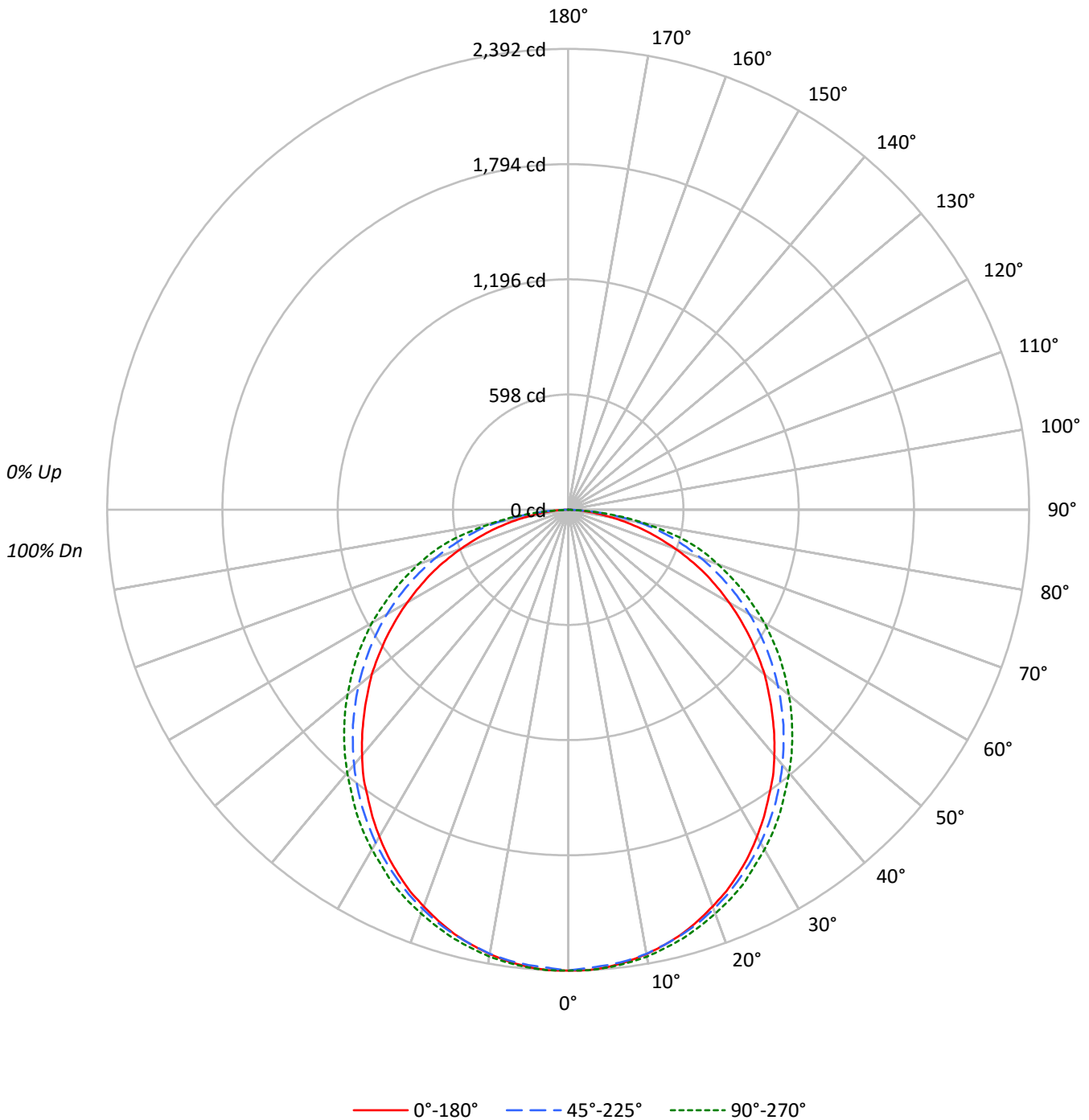
Lumens per Lamp: N/A  
Luminaire Lumens: 6964.0 lumens  
Efficiency: N/A  
Efficacy: 139.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.9  
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	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°	3219	3219	3219
5°	3218	3205	3221
10°	3201	3197	3218
15°	3177	3180	3208
20°	3137	3159	3194
25°	3098	3131	3186
30°	3045	3103	3165
35°	2982	3072	3150
40°	2922	3036	3132
45°	2849	3005	3128
50°	2785	2973	3129
55°	2695	2946	3145
60°	2597	2925	3166
65°	2494	2898	3191
70°	2329	2877	3248
75°	2120	2883	3348
80°	1753	2852	3083
85°	1343	2265	2189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.2	3.2
10°-20°	645.9	9.3
20°-30°	974.4	14.0
30°-40°	1169.8	16.8
40°-50°	1216.6	17.5
50°-60°	1118.9	16.1
60°-70°	891.7	12.8
70°-80°	565.1	8.1
80°-90°	155.4	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°	1846.5	26.5
0°-40°	3016.3	43.3
0°-60°	5351.8	76.8
0°-90°	6964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6964.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2392	2392	2392	2392	2392	
5°	2383	2383	2373	2385	2385	226
15°	2281	2281	2283	2300	2303	643
25°	2087	2096	2109	2139	2146	961
35°	1816	1835	1870	1905	1918	1137
45°	1497	1530	1579	1629	1644	1156
55°	1149	1186	1256	1318	1340	1027
65°	783	823	910	980	1002	772
75°	408	460	555	624	644	429
85°	87	124	147	144	142	104
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2392.5	2392.5	2392.5	2392.5	2392.5
2.5°	2392.5	2392.5	2380.1	2392.5	2392.5
5°	2382.6	2382.6	2372.6	2385.0	2385.0
7.5°	2365.1	2367.6	2360.2	2372.6	2372.6
10°	2342.8	2345.2	2340.3	2355.2	2355.2
12.5°	2312.9	2315.4	2312.9	2330.3	2330.3
15°	2280.6	2280.6	2283.1	2300.5	2303.0
17.5°	2238.3	2243.3	2248.3	2268.2	2268.2
20°	2191.1	2198.5	2206.0	2230.8	2230.8
22.5°	2143.8	2151.3	2161.2	2186.1	2191.1
25°	2086.6	2096.5	2109.0	2138.8	2146.3
27.5°	2026.9	2034.4	2054.3	2086.6	2089.1
30°	1959.8	1972.2	1997.1	2029.4	2036.9
32.5°	1890.1	1907.5	1934.9	1972.2	1979.7
35°	1815.5	1835.4	1870.2	1905.0	1917.5
37.5°	1745.9	1760.8	1800.6	1840.4	1847.8
40°	1663.8	1686.2	1728.5	1773.2	1783.2
42.5°	1581.7	1606.6	1653.9	1698.6	1716.0
45°	1497.2	1529.5	1579.3	1629.0	1643.9
47.5°	1412.6	1447.4	1499.7	1554.4	1571.8
50°	1330.5	1362.9	1420.1	1477.3	1494.7
52.5°	1238.5	1275.8	1338.0	1400.2	1417.6
55°	1149.0	1186.3	1255.9	1318.1	1340.5
57.5°	1057.0	1099.3	1171.4	1236.0	1255.9
60°	965.0	1009.7	1086.8	1151.5	1176.4
62.5°	872.9	915.2	999.8	1064.4	1086.8
65°	783.4	823.2	910.2	979.9	1002.3
67.5°	686.4	731.2	820.7	892.8	912.7
70°	591.9	636.7	731.2	805.8	825.7
72.5°	494.9	547.1	641.6	713.8	741.1
75°	407.9	460.1	554.6	624.2	644.1
77.5°	315.9	368.1	465.1	514.8	517.3
80°	226.3	286.0	368.1	388.0	397.9
82.5°	149.2	206.4	253.7	278.5	278.5
85°	87.0	124.4	146.7	144.2	141.8
87.5°	32.3	42.3	34.8	24.9	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)