

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: P384022

Luminaire Tested: **24ID-55-L830-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-55-L830-CFR2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

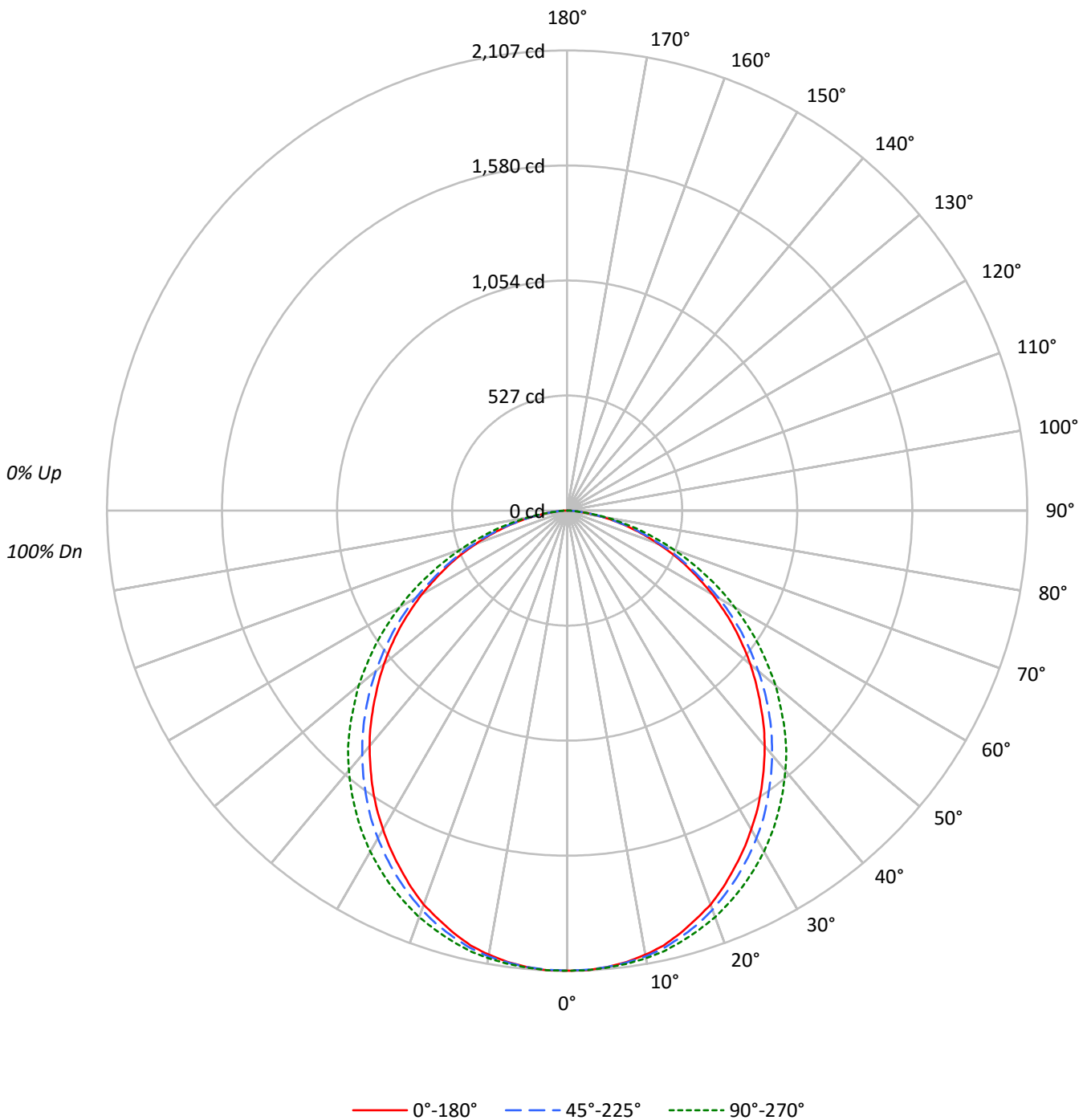
Lumens per Lamp: N/A  
Luminaire Lumens: 5561.0 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 50.2  
Input Voltage (V): NR  
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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2834	2834	2834
5°	2834	2834	2838
10°	2821	2832	2844
15°	2791	2814	2841
20°	2749	2785	2837
25°	2685	2743	2821
30°	2619	2693	2801
35°	2549	2632	2769
40°	2472	2565	2731
45°	2381	2487	2678
50°	2292	2391	2607
55°	2190	2288	2510
60°	2070	2160	2384
65°	1925	1987	2227
70°	1743	1809	2039
75°	1521	1579	1782
80°	1230	1252	1403
85°	732	817	689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.4	3.6
10°-20°	570.0	10.2
20°-30°	852.6	15.3
30°-40°	1007.4	18.1
40°-50°	1016.5	18.3
50°-60°	882.8	15.9
60°-70°	633.0	11.4
70°-80°	329.7	5.9
80°-90°	69.6	1.3
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°	1622.1	29.2
0°-40°	2629.4	47.3
0°-60°	4528.7	81.4
0°-90°	5561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5561.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2107	2107	2107	2107	2107	
5°	2098	2095	2098	2098	2101	199
15°	2004	2006	2020	2034	2040	565
25°	1808	1820	1847	1884	1900	833
35°	1552	1563	1602	1661	1686	970
45°	1251	1265	1307	1374	1407	966
55°	934	942	975	1039	1070	834
65°	605	602	624	672	699	598
75°	293	290	304	326	343	312
85°	47	53	53	47	45	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2106.6	2106.6	2106.6	2106.6	2106.6
2.5°	2106.6	2103.8	2103.8	2103.8	2106.6
5°	2098.2	2095.4	2098.2	2098.2	2101.0
7.5°	2084.3	2081.5	2087.1	2089.9	2092.6
10°	2064.8	2064.8	2073.1	2078.7	2081.5
12.5°	2039.7	2039.7	2050.9	2059.2	2064.8
15°	2003.5	2006.3	2020.2	2034.1	2039.7
17.5°	1961.7	1970.0	1986.8	2006.3	2011.8
20°	1919.9	1925.5	1945.0	1970.0	1981.2
22.5°	1866.9	1875.3	1897.6	1931.0	1942.2
25°	1808.4	1819.6	1847.4	1883.7	1900.4
27.5°	1749.9	1758.3	1791.7	1833.5	1853.0
30°	1685.8	1697.0	1733.2	1780.6	1802.9
32.5°	1621.7	1630.1	1671.9	1722.0	1747.1
35°	1552.1	1563.2	1602.2	1660.7	1685.8
37.5°	1479.6	1493.6	1532.6	1593.9	1621.7
40°	1407.2	1415.5	1460.1	1521.4	1554.9
42.5°	1331.9	1343.1	1384.9	1451.8	1485.2
45°	1251.1	1265.1	1306.9	1373.7	1407.2
47.5°	1173.1	1187.0	1226.1	1292.9	1323.6
50°	1095.1	1103.4	1142.5	1209.3	1245.6
52.5°	1014.3	1022.6	1058.9	1123.0	1156.4
55°	933.5	941.8	975.3	1039.4	1070.0
57.5°	849.9	855.4	888.9	947.4	978.1
60°	769.1	771.9	802.5	855.4	886.1
62.5°	682.7	685.5	707.8	769.1	796.9
65°	604.7	601.9	624.2	671.5	699.4
67.5°	523.9	523.9	543.4	585.2	607.5
70°	443.1	443.1	459.8	496.0	518.3
72.5°	367.8	367.8	381.7	409.6	426.3
75°	292.6	289.8	303.7	326.0	342.7
77.5°	222.9	222.9	228.5	248.0	259.1
80°	158.8	158.8	161.6	172.8	181.1
82.5°	100.3	100.3	100.3	105.9	108.7
85°	47.4	52.9	52.9	47.4	44.6
87.5°	22.3	22.3	19.5	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)