

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: P384274

Luminaire Tested: **14ID-85-L830-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-85-L830-CFD2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

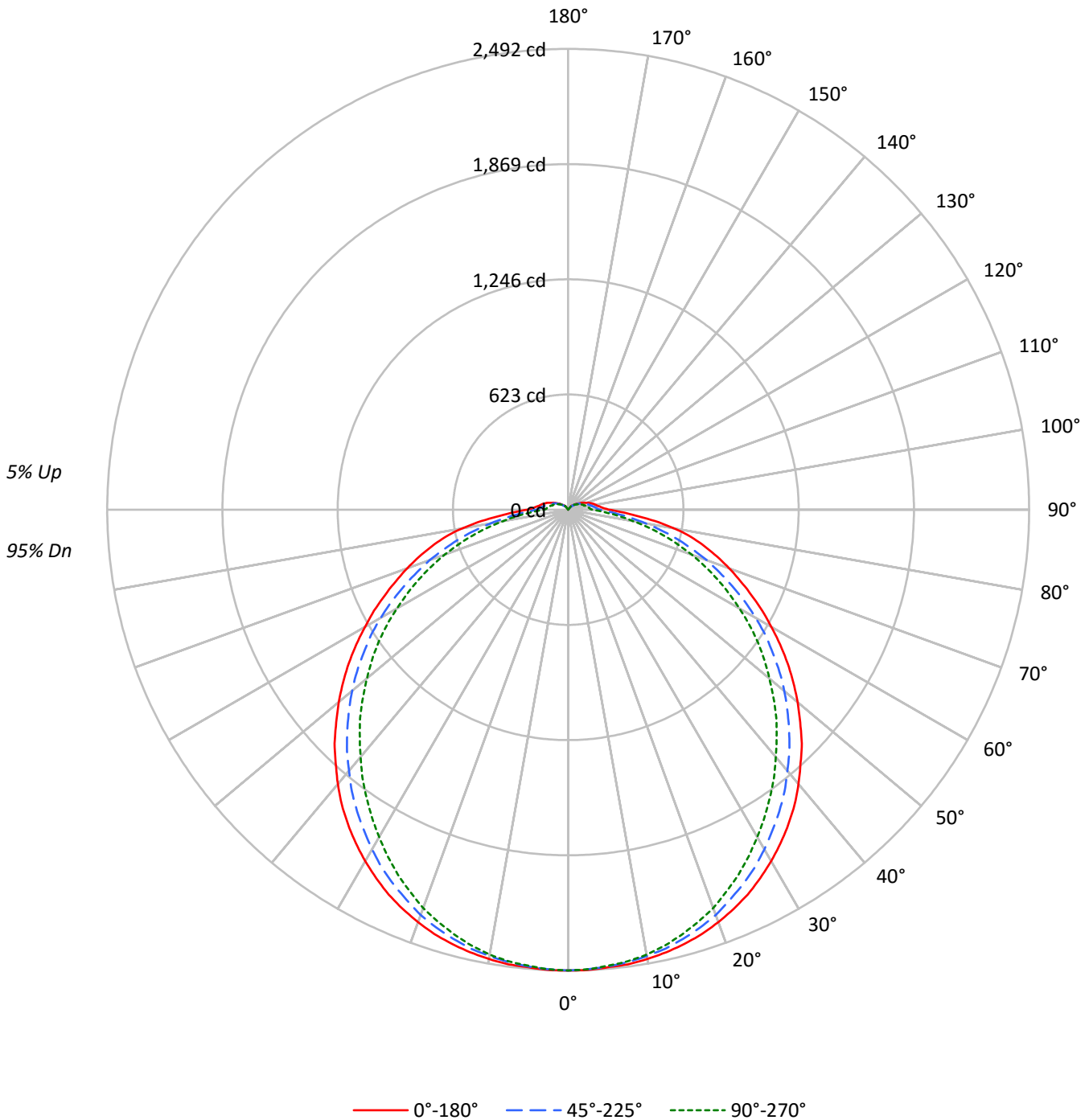
Lumens per Lamp: N/A  
Luminaire Lumens: 8082.2 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 83.3  
Input Voltage (V): NR  
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

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

	0°	45°	90°
0°	6706	6706	6706
5°	6685	6613	6591
10°	6693	6528	6485
15°	6697	6438	6341
20°	6696	6340	6188
25°	6688	6210	6000
30°	6658	6073	5792
35°	6626	5927	5591
40°	6575	5763	5379
45°	6526	5601	5188
50°	6458	5432	4957
55°	6411	5232	4745
60°	6367	5019	4462
65°	6389	4736	4171
70°	6536	4454	3829
75°	6863	4077	3399
80°	7310	3581	2859
85°	7678	3097	2340



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.8	2.9
10°-20°	678.2	8.4
20°-30°	1030.1	12.7
30°-40°	1244.2	15.4
40°-50°	1302.2	16.1
50°-60°	1208.4	15.0
60°-70°	978.7	12.1
70°-80°	660.5	8.2
80°-90°	319.1	3.9
90°-100°	160.5	2.0
100°-110°	116.7	1.4
110°-120°	78.0	1.0
120°-130°	45.2	0.6
130°-140°	22.8	0.3
140°-150°	1.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1944.1	24.1
0°-40°	3188.3	39.4
0°-60°	5698.9	70.5
0°-90°	7657.3	94.7
90°-120°	355.2	4.4
90°-150°	425.0	5.3
90°-180°	425.0	5.3
0°-180°	8082.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2492	2492	2492	2492	2492	
5°	2484	2480	2480	2476	2476	237
15°	2431	2418	2402	2386	2378	687
25°	2296	2276	2235	2194	2178	1058
35°	2076	2047	1990	1929	1900	1299
45°	1786	1754	1688	1619	1591	1376
55°	1448	1415	1350	1285	1252	1294
65°	1093	1052	979	926	889	1085
75°	763	685	608	563	530	803
85°	367	318	269	245	220	347
90°	220	200	171	155	130	126
95°	175	163	147	130	114	138
105°	130	122	110	98	90	139
115°	90	82	82	69	69	89
125°	57	49	53	45	49	50
135°	33	28	28	28	33	25
145°	0	0	0	0	0	2
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2491.9	2491.9	2491.9	2491.9	2491.9
2.5°	2491.9	2487.8	2487.8	2487.8	2487.8
5°	2483.7	2479.7	2479.7	2475.6	2475.6
7.5°	2479.7	2471.5	2467.4	2463.3	2463.3
10°	2467.4	2459.3	2451.1	2443.0	2443.0
12.5°	2451.1	2443.0	2430.7	2414.4	2414.4
15°	2430.7	2418.5	2402.2	2385.9	2377.7
17.5°	2406.2	2394.0	2369.5	2345.1	2336.9
20°	2373.6	2357.3	2332.8	2300.2	2292.1
22.5°	2336.9	2320.6	2283.9	2251.3	2235.0
25°	2296.1	2275.7	2235.0	2194.2	2177.9
27.5°	2247.2	2226.8	2181.9	2133.0	2112.6
30°	2194.2	2169.7	2120.8	2067.7	2043.3
32.5°	2137.1	2108.5	2055.5	1998.4	1973.9
35°	2075.9	2047.4	1990.3	1929.1	1900.5
37.5°	2010.6	1982.1	1920.9	1855.7	1827.1
40°	1937.2	1908.7	1843.4	1778.2	1745.5
42.5°	1859.7	1835.3	1770.0	1700.7	1668.1
45°	1786.3	1753.7	1688.5	1619.1	1590.6
47.5°	1700.7	1676.2	1606.9	1537.6	1504.9
50°	1619.1	1590.6	1525.3	1456.0	1419.3
52.5°	1533.5	1509.0	1439.7	1370.3	1337.7
55°	1447.8	1415.2	1349.9	1284.7	1252.1
57.5°	1358.1	1329.6	1264.3	1203.1	1162.3
60°	1268.4	1239.8	1170.5	1113.4	1068.5
62.5°	1182.7	1150.1	1076.7	1015.5	978.8
65°	1093.0	1052.2	978.8	925.8	889.1
67.5°	1007.4	958.4	885.0	836.1	799.4
70°	925.8	868.7	795.3	746.3	709.6
72.5°	844.2	774.9	697.4	652.5	619.9
75°	762.7	685.2	607.7	562.8	530.2
77.5°	681.1	591.4	513.9	477.2	444.5
80°	583.2	497.6	424.2	391.5	358.9
82.5°	473.1	403.8	342.6	310.0	285.5
85°	367.1	318.1	269.2	244.7	220.2
87.5°	285.5	248.8	212.1	191.7	171.3
90°	220.2	199.8	171.3	155.0	130.5
92.5°	191.7	175.4	155.0	138.7	118.3
95°	175.4	163.1	146.8	130.5	114.2
97.5°	159.1	150.9	134.6	122.4	106.0
100°	150.9	138.7	126.4	114.2	102.0
102.5°	142.7	130.5	118.3	106.0	97.9
105°	130.5	122.4	110.1	97.9	89.7
107.5°	122.4	110.1	102.0	89.7	85.6
110°	110.1	102.0	93.8	85.6	81.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	97.9	93.8	85.6	77.5	73.4
115°	89.7	81.6	81.6	69.3	69.3
117.5°	81.6	73.4	73.4	65.3	65.3
120°	69.3	65.3	65.3	57.1	57.1
122.5°	61.2	57.1	57.1	53.0	53.0
125°	57.1	48.9	53.0	44.9	48.9
127.5°	48.9	44.9	44.9	40.8	44.9
130°	40.8	36.7	36.7	36.7	40.8
132.5°	36.7	32.6	32.6	32.6	36.7
135°	32.6	28.5	28.5	28.5	32.6
137.5°	28.5	24.5	20.4	24.5	28.5
140°	24.5	20.4	16.3	20.4	24.5
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)