

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: P384382

Luminaire Tested: **24ID-85-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384382
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: 24ID-85-L830-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

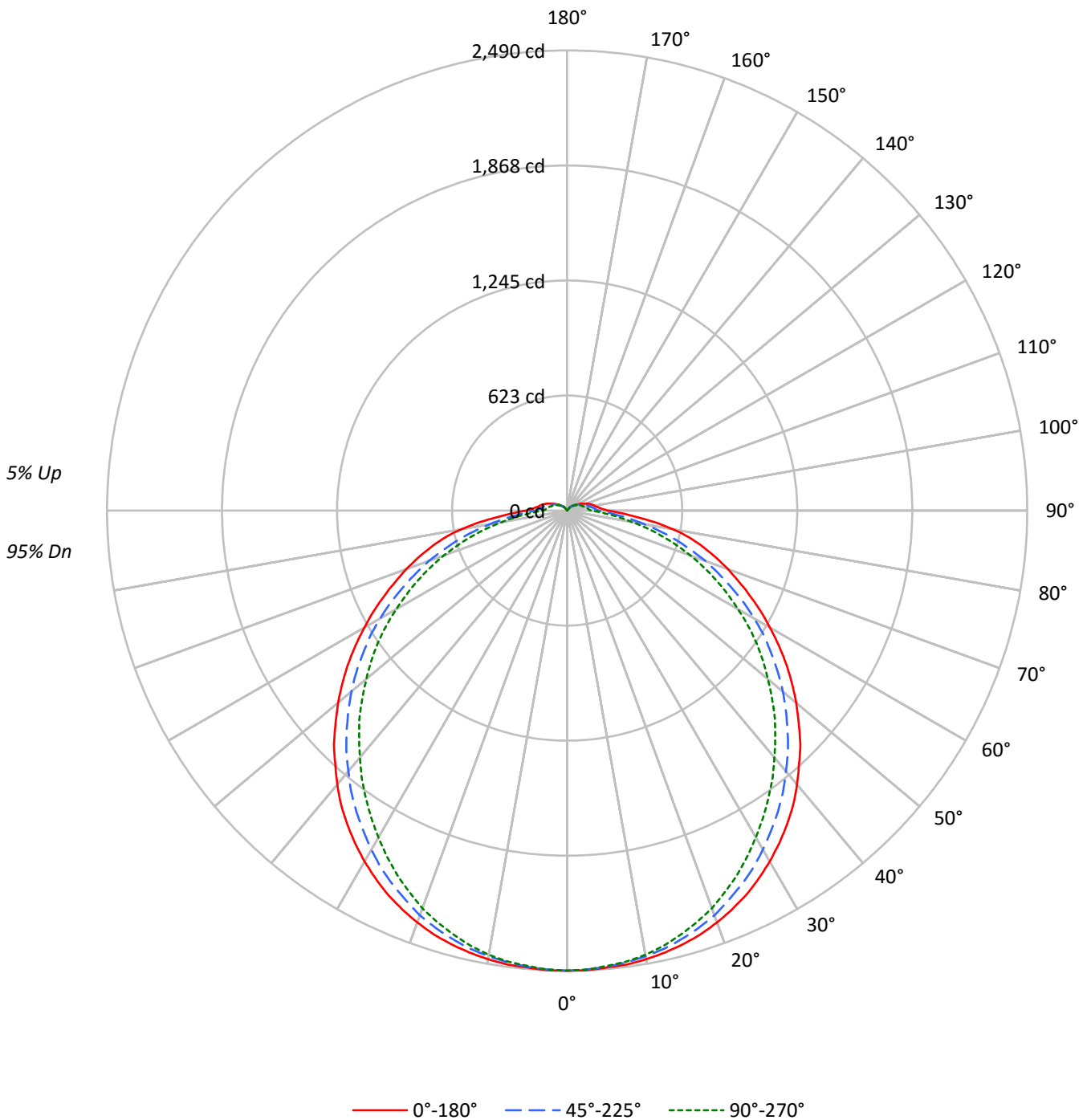
Lumens per Lamp: N/A
Luminaire Lumens: 8074.8 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 82
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°	3350	3350	3350
5°	3339	3320	3316
10°	3344	3294	3286
15°	3345	3266	3237
20°	3345	3233	3182
25°	3341	3184	3109
30°	3326	3132	3026
35°	3310	3076	2947
40°	3285	3011	2863
45°	3260	2949	2791
50°	3226	2886	2700
55°	3203	2809	2622
60°	3180	2729	2511
65°	3191	2617	2399
70°	3265	2515	2270
75°	3428	2373	2100
80°	3652	2187	1887
85°	3835	2065	1739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	2.9
10°-20°	677.6	8.4
20°-30°	1029.1	12.7
30°-40°	1243.1	15.4
40°-50°	1301.0	16.1
50°-60°	1207.2	15.0
60°-70°	977.9	12.1
70°-80°	659.9	8.2
80°-90°	318.8	3.9
90°-100°	160.4	2.0
100°-110°	116.6	1.4
110°-120°	77.9	1.0
120°-130°	45.2	0.6
130°-140°	22.8	0.3
140°-150°	1.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1942.3	24.1
0°-40°	3185.4	39.4
0°-60°	5693.6	70.5
0°-90°	7650.2	94.7
90°-120°	354.9	4.4
90°-150°	424.5	5.3
90°-180°	425.0	5.3
0°-180°	8074.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2490	2490	2490	2490	2490	
5°	2482	2477	2477	2473	2473	237
15°	2428	2416	2400	2384	2376	686
25°	2294	2274	2233	2192	2176	1057
35°	2074	2046	1988	1927	1899	1298
45°	1785	1752	1687	1618	1589	1375
55°	1446	1414	1349	1284	1251	1293
65°	1092	1051	978	925	888	1084
75°	762	684	607	562	530	803
85°	367	318	269	244	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°	2489.6	2489.6	2489.6	2489.6	2489.6
2.5°	2489.6	2485.5	2485.5	2485.5	2485.5
5°	2481.5	2477.4	2477.4	2473.3	2473.3
7.5°	2477.4	2469.2	2465.2	2461.1	2461.1
10°	2465.2	2457.0	2448.9	2440.7	2440.7
12.5°	2448.9	2440.7	2428.5	2412.2	2412.2
15°	2428.5	2416.3	2400.0	2383.7	2375.5
17.5°	2404.0	2391.8	2367.4	2342.9	2334.8
20°	2371.4	2355.1	2330.7	2298.1	2290.0
22.5°	2334.8	2318.5	2281.8	2249.2	2232.9
25°	2294.0	2273.7	2232.9	2192.2	2175.9
27.5°	2245.1	2224.8	2179.9	2131.0	2110.7
30°	2192.2	2167.7	2118.8	2065.8	2041.4
32.5°	2135.1	2106.6	2053.6	1996.6	1972.1
35°	2074.0	2045.5	1988.4	1927.3	1898.8
37.5°	2008.8	1980.3	1919.2	1854.0	1825.4
40°	1935.5	1906.9	1841.7	1776.5	1744.0
42.5°	1858.0	1833.6	1768.4	1699.1	1666.5
45°	1784.7	1752.1	1686.9	1617.6	1589.1
47.5°	1699.1	1674.7	1605.4	1536.1	1503.5
50°	1617.6	1589.1	1523.9	1454.7	1418.0
52.5°	1532.1	1507.6	1438.4	1369.1	1336.5
55°	1446.5	1413.9	1348.7	1283.5	1250.9
57.5°	1356.9	1328.3	1263.1	1202.0	1161.3
60°	1267.2	1238.7	1169.4	1112.4	1067.6
62.5°	1181.6	1149.1	1075.7	1014.6	977.9
65°	1092.0	1051.3	977.9	924.9	888.3
67.5°	1006.4	957.5	884.2	835.3	798.6
70°	924.9	867.9	794.6	745.7	709.0
72.5°	843.5	774.2	696.8	651.9	619.3
75°	762.0	684.5	607.1	562.3	529.7
77.5°	680.5	590.8	513.4	476.7	444.1
80°	582.7	497.1	423.8	391.2	358.6
82.5°	472.7	403.4	342.3	309.7	285.2
85°	366.7	317.8	268.9	244.5	220.0
87.5°	285.2	248.6	211.9	191.5	171.1
90°	220.0	199.7	171.1	154.8	130.4
92.5°	191.5	175.2	154.8	138.5	118.2
95°	175.2	163.0	146.7	130.4	114.1
97.5°	158.9	150.8	134.5	122.2	105.9
100°	150.8	138.5	126.3	114.1	101.9
102.5°	142.6	130.4	118.2	105.9	97.8
105°	130.4	122.2	110.0	97.8	89.6
107.5°	122.2	110.0	101.9	89.6	85.6
110°	110.0	101.9	93.7	85.6	81.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.8	93.7	85.6	77.4	73.3
115°	89.6	81.5	81.5	69.3	69.3
117.5°	81.5	73.3	73.3	65.2	65.2
120°	69.3	65.2	65.2	57.0	57.0
122.5°	61.1	57.0	57.0	53.0	53.0
125°	57.0	48.9	53.0	44.8	48.9
127.5°	48.9	44.8	44.8	40.7	44.8
130°	40.7	36.7	36.7	36.7	40.7
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	24.4	20.4	24.4	28.5
140°	24.4	20.4	16.3	20.4	24.4
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)