

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: P384606

Luminaire Tested: **14ID-80-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-80-L830-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

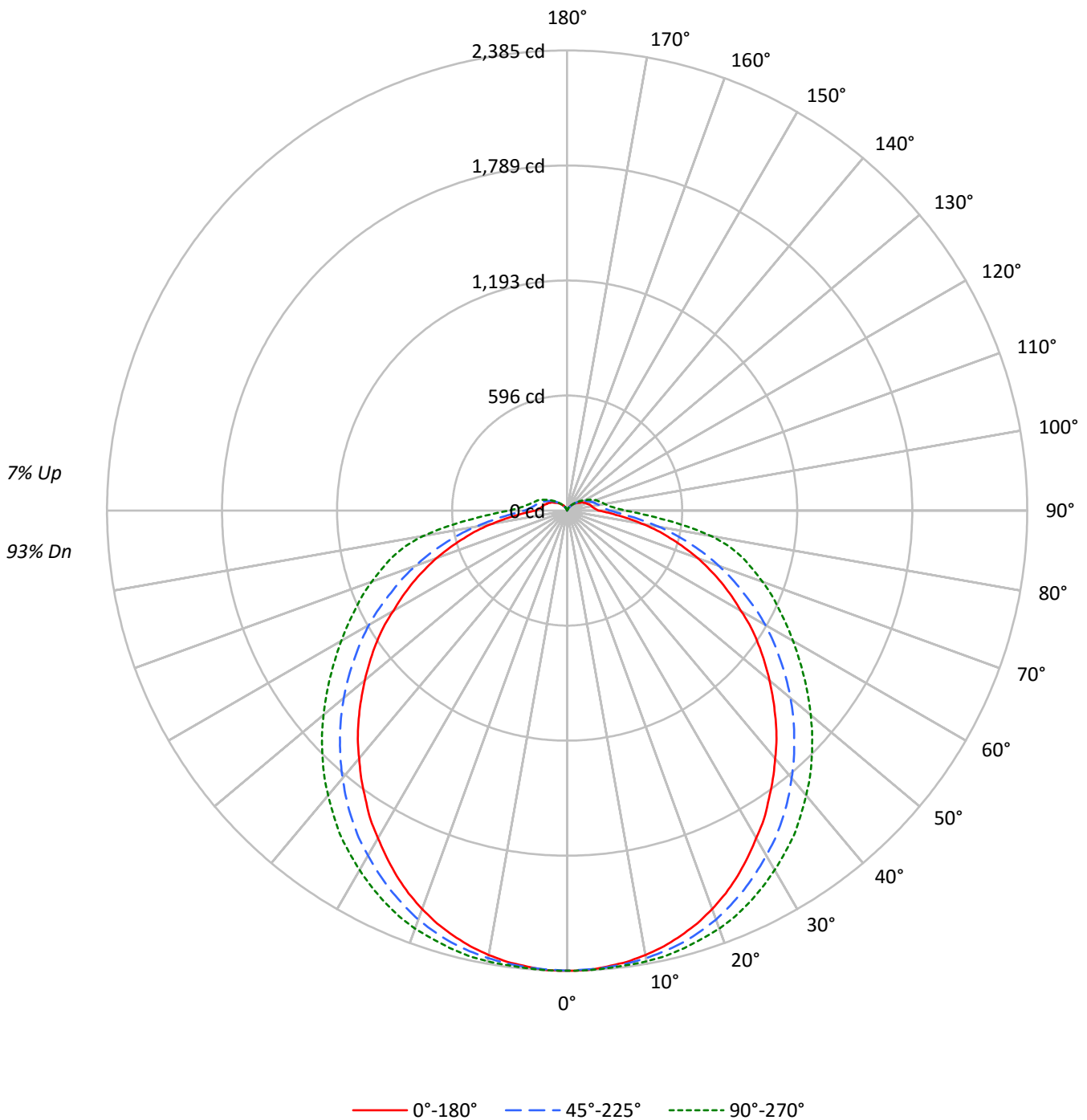
Lumens per Lamp: N/A
Luminaire Lumens: 8344.9 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 77.1
Input Voltage (V): NR
Input Current (A_{in}): 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6417	6417	6417
5°	6373	6298	6293
10°	6321	6195	6208
15°	6249	6097	6129
20°	6153	5979	6052
25°	6028	5837	5954
30°	5879	5688	5842
35°	5737	5541	5736
40°	5598	5365	5595
45°	5471	5189	5461
50°	5335	5006	5316
55°	5216	4809	5180
60°	5052	4617	5080
65°	4954	4351	5020
70°	4835	4095	5028
75°	4666	3747	5059
80°	4524	3321	4854
85°	4573	2807	3897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	2.7
10°-20°	653.4	7.8
20°-30°	998.3	12.0
30°-40°	1215.2	14.6
40°-50°	1284.4	15.4
50°-60°	1212.4	14.5
60°-70°	1020.0	12.2
70°-80°	735.4	8.8
80°-90°	387.8	4.6
90°-100°	207.6	2.5
100°-110°	157.7	1.9
110°-120°	114.4	1.4
120°-130°	71.8	0.9
130°-140°	38.8	0.5
140°-150°	16.9	0.2
150°-160°	4.5	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1877.8	22.5
0°-40°	3093.0	37.1
0°-60°	5589.8	67.0
0°-90°	7733.1	92.7
90°-120°	479.6	5.7
90°-150°	607.2	7.3
90°-180°	612.0	7.3
0°-180°	8344.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2385	2385	2385	2385	2385	
5°	2372	2372	2376	2376	2380	225
15°	2281	2289	2318	2335	2347	643
25°	2089	2114	2168	2218	2239	962
35°	1823	1864	1948	2023	2052	1142
45°	1527	1573	1665	1756	1794	1179
55°	1211	1265	1348	1448	1498	1082
65°	882	932	1007	1132	1211	872
75°	554	599	658	787	941	588
85°	254	287	320	400	487	238
90°	162	191	221	262	300	93
95°	142	162	187	212	229	113
105°	121	133	150	166	175	126
115°	96	104	116	125	133	96
125°	71	71	83	83	87	64
135°	50	46	50	50	54	38
145°	29	25	25	25	29	19
155°	12	12	4	8	12	6
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°	2384.7	2384.7	2384.7	2384.7	2384.7
2.5°	2384.7	2380.5	2380.5	2380.5	2384.7
5°	2372.2	2372.2	2376.4	2376.4	2380.5
7.5°	2359.7	2359.7	2368.0	2372.2	2376.4
10°	2338.9	2343.1	2355.5	2363.9	2372.2
12.5°	2313.9	2318.1	2338.9	2355.5	2363.9
15°	2280.6	2289.0	2318.1	2334.7	2347.2
17.5°	2243.2	2255.7	2289.0	2313.9	2326.4
20°	2197.4	2214.0	2255.7	2289.0	2305.6
22.5°	2147.5	2164.1	2214.0	2255.7	2276.5
25°	2089.2	2114.2	2168.3	2218.2	2239.0
27.5°	2026.8	2055.9	2118.3	2176.6	2197.4
30°	1960.2	1993.5	2064.2	2126.6	2151.6
32.5°	1897.8	1931.0	2010.1	2076.7	2101.7
35°	1822.8	1864.5	1947.7	2022.6	2051.7
37.5°	1752.1	1793.7	1881.1	1960.2	1989.3
40°	1677.2	1718.8	1810.4	1897.8	1926.9
42.5°	1606.4	1648.0	1739.6	1831.2	1864.5
45°	1527.4	1573.1	1664.7	1756.3	1793.7
47.5°	1448.3	1494.1	1589.8	1685.5	1723.0
50°	1369.2	1419.2	1510.7	1606.4	1648.0
52.5°	1290.1	1340.1	1431.6	1531.5	1573.1
55°	1211.1	1265.2	1348.4	1448.3	1498.2
57.5°	1132.0	1186.1	1269.3	1373.4	1423.3
60°	1040.4	1102.9	1186.1	1294.3	1352.6
62.5°	961.4	1015.5	1098.7	1211.1	1281.8
65°	882.3	932.2	1007.1	1132.0	1211.1
67.5°	799.1	853.2	923.9	1040.4	1148.6
70°	720.0	765.8	836.5	957.2	1077.9
72.5°	636.7	682.5	749.1	874.0	1007.1
75°	553.5	599.3	657.6	786.6	940.6
77.5°	478.6	516.1	570.2	695.0	861.5
80°	395.4	432.8	482.8	595.1	757.4
82.5°	320.5	353.7	395.4	495.2	624.3
85°	253.9	287.2	320.5	399.5	486.9
87.5°	203.9	228.9	262.2	320.5	378.7
90°	162.3	191.4	220.6	262.2	299.6
92.5°	149.8	174.8	199.8	233.1	258.0
95°	141.5	162.3	187.3	212.2	228.9
97.5°	133.2	154.0	174.8	199.8	212.2
100°	129.0	145.7	166.5	187.3	195.6
102.5°	124.9	137.3	158.1	174.8	187.3
105°	120.7	133.2	149.8	166.5	174.8
107.5°	112.4	124.9	141.5	158.1	166.5
110°	108.2	116.5	133.2	145.7	158.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.0	112.4	124.9	137.3	145.7
115°	95.7	104.0	116.5	124.9	133.2
117.5°	91.6	95.7	108.2	112.4	120.7
120°	83.2	87.4	99.9	104.0	108.2
122.5°	74.9	79.1	91.6	91.6	99.9
125°	70.7	70.7	83.2	83.2	87.4
127.5°	66.6	66.6	74.9	74.9	79.1
130°	58.3	58.3	66.6	66.6	66.6
132.5°	54.1	49.9	58.3	58.3	62.4
135°	49.9	45.8	49.9	49.9	54.1
137.5°	41.6	41.6	45.8	41.6	45.8
140°	37.5	33.3	37.5	37.5	41.6
142.5°	33.3	29.1	33.3	29.1	33.3
145°	29.1	25.0	25.0	25.0	29.1
147.5°	25.0	20.8	20.8	20.8	25.0
150°	20.8	16.6	16.6	16.6	20.8
152.5°	16.6	12.5	8.3	12.5	16.6
155°	12.5	12.5	4.2	8.3	12.5
157.5°	8.3	8.3	0.0	4.2	8.3
160°	4.2	4.2	0.0	4.2	4.2
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)