

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: P384270

Luminaire Tested: **14ID-80-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384270
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-80-L830-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

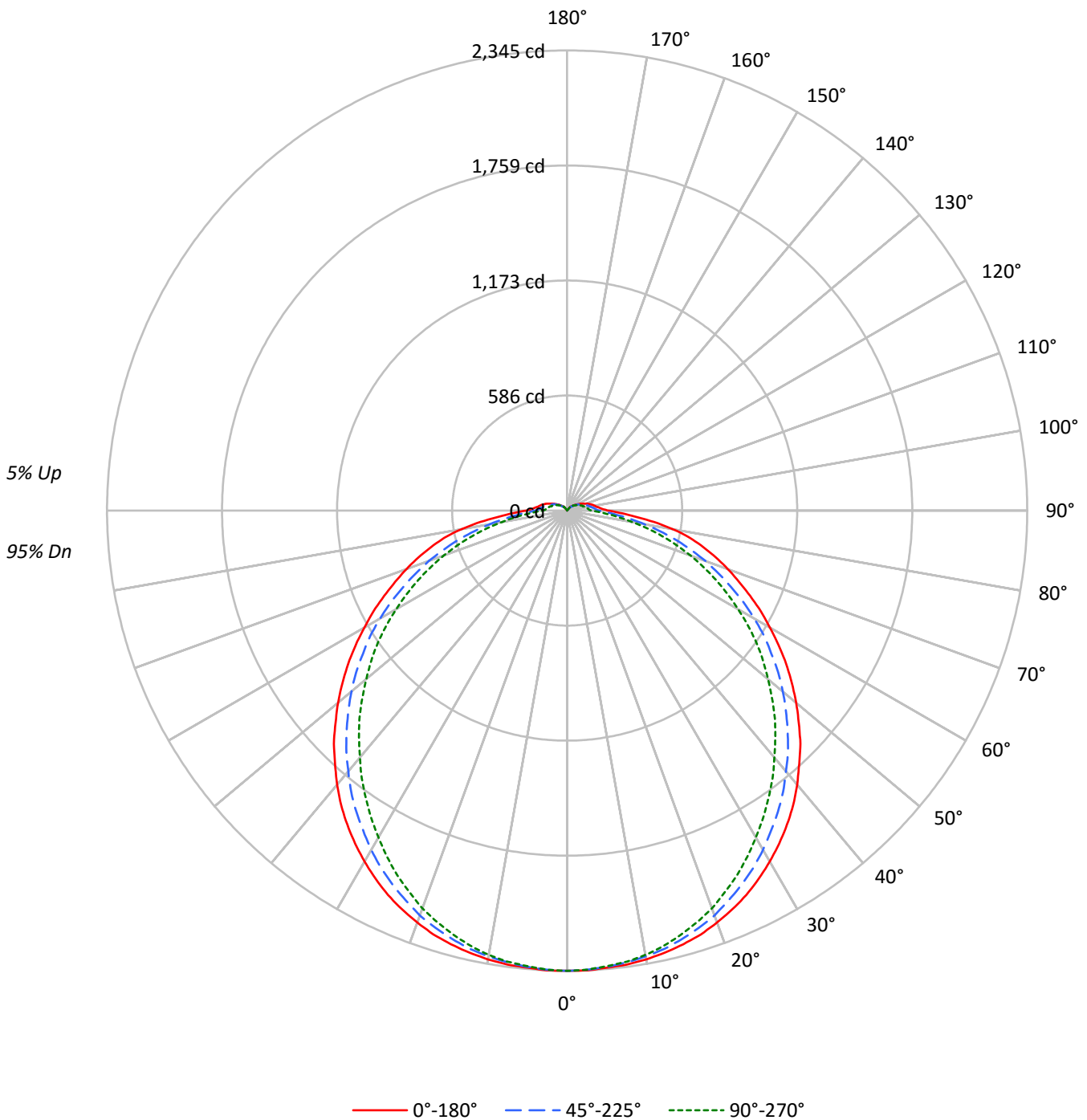
Lumens per Lamp: N/A
Luminaire Lumens: 7607.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 77.1
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°	6311	6311	6311
5°	6292	6224	6203
10°	6299	6144	6103
15°	6303	6059	5968
20°	6302	5968	5824
25°	6294	5844	5647
30°	6266	5716	5451
35°	6236	5578	5262
40°	6189	5424	5063
45°	6142	5271	4883
50°	6078	5112	4666
55°	6034	4925	4466
60°	5993	4724	4200
65°	6013	4458	3925
70°	6152	4192	3604
75°	6459	3837	3199
80°	6880	3370	2691
85°	7226	2914	2203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	2.9
10°-20°	638.3	8.4
20°-30°	969.5	12.7
30°-40°	1171.1	15.4
40°-50°	1225.7	16.1
50°-60°	1137.3	15.0
60°-70°	921.2	12.1
70°-80°	621.7	8.2
80°-90°	300.3	3.9
90°-100°	151.1	2.0
100°-110°	109.8	1.4
110°-120°	73.4	1.0
120°-130°	42.5	0.6
130°-140°	21.4	0.3
140°-150°	1.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1829.8	24.1
0°-40°	3000.8	39.4
0°-60°	5363.8	70.5
0°-90°	7207.1	94.7
90°-120°	334.3	4.4
90°-150°	400.0	5.3
90°-180°	400.0	5.3
0°-180°	7607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2345	2345	2345	2345	2345	
5°	2338	2334	2334	2330	2330	223
15°	2288	2276	2261	2246	2238	646
25°	2161	2142	2104	2065	2050	996
35°	1954	1927	1873	1816	1789	1222
45°	1681	1651	1589	1524	1497	1295
55°	1363	1332	1271	1209	1178	1218
65°	1029	990	921	871	837	1021
75°	718	645	572	530	499	756
85°	346	299	253	230	207	326
90°	207	188	161	146	123	118
95°	165	154	138	123	108	130
105°	123	115	104	92	84	131
115°	84	77	77	65	65	84
125°	54	46	50	42	46	47
135°	31	27	27	27	31	24
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°	2345.4	2345.4	2345.4	2345.4	2345.4
2.5°	2345.4	2341.5	2341.5	2341.5	2341.5
5°	2337.7	2333.9	2333.9	2330.0	2330.0
7.5°	2333.9	2326.2	2322.3	2318.5	2318.5
10°	2322.3	2314.7	2307.0	2299.3	2299.3
12.5°	2307.0	2299.3	2287.8	2272.4	2272.4
15°	2287.8	2276.3	2260.9	2245.6	2237.9
17.5°	2264.8	2253.3	2230.2	2207.2	2199.5
20°	2234.1	2218.7	2195.7	2165.0	2157.3
22.5°	2199.5	2184.2	2149.6	2118.9	2103.5
25°	2161.1	2141.9	2103.5	2065.2	2049.8
27.5°	2115.1	2095.9	2053.6	2007.6	1988.4
30°	2065.2	2042.1	1996.1	1946.2	1923.1
32.5°	2011.4	1984.6	1934.7	1880.9	1857.9
35°	1953.8	1927.0	1873.2	1815.7	1788.8
37.5°	1892.4	1865.6	1808.0	1746.6	1719.7
40°	1823.3	1796.5	1735.0	1673.6	1642.9
42.5°	1750.4	1727.4	1665.9	1600.7	1570.0
45°	1681.3	1650.6	1589.2	1523.9	1497.1
47.5°	1600.7	1577.7	1512.4	1447.2	1416.4
50°	1523.9	1497.1	1435.6	1370.4	1335.8
52.5°	1443.3	1420.3	1355.0	1289.8	1259.1
55°	1362.7	1332.0	1270.6	1209.2	1178.4
57.5°	1278.3	1251.4	1190.0	1132.4	1094.0
60°	1193.8	1166.9	1101.7	1047.9	1005.7
62.5°	1113.2	1082.5	1013.4	955.8	921.3
65°	1028.7	990.4	921.3	871.4	836.8
67.5°	948.1	902.1	833.0	786.9	752.4
70°	871.4	817.6	748.5	702.5	667.9
72.5°	794.6	729.3	656.4	614.2	583.5
75°	717.8	644.9	572.0	529.7	499.0
77.5°	641.0	556.6	483.7	449.1	418.4
80°	548.9	468.3	399.2	368.5	337.8
82.5°	445.3	380.0	322.4	291.7	268.7
85°	345.5	299.4	253.3	230.3	207.3
87.5°	268.7	234.2	199.6	180.4	161.2
90°	207.3	188.1	161.2	145.9	122.8
92.5°	180.4	165.1	145.9	130.5	111.3
95°	165.1	153.5	138.2	122.8	107.5
97.5°	149.7	142.0	126.7	115.2	99.8
100°	142.0	130.5	119.0	107.5	96.0
102.5°	134.4	122.8	111.3	99.8	92.1
105°	122.8	115.2	103.6	92.1	84.4
107.5°	115.2	103.6	96.0	84.4	80.6
110°	103.6	96.0	88.3	80.6	76.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.1	88.3	80.6	72.9	69.1
115°	84.4	76.8	76.8	65.3	65.3
117.5°	76.8	69.1	69.1	61.4	61.4
120°	65.3	61.4	61.4	53.7	53.7
122.5°	57.6	53.7	53.7	49.9	49.9
125°	53.7	46.1	49.9	42.2	46.1
127.5°	46.1	42.2	42.2	38.4	42.2
130°	38.4	34.5	34.5	34.5	38.4
132.5°	34.5	30.7	30.7	30.7	34.5
135°	30.7	26.9	26.9	26.9	30.7
137.5°	26.9	23.0	19.2	23.0	26.9
140°	23.0	19.2	15.4	19.2	23.0
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)