

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: P384666

Luminaire Tested: **22ID-85-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384666
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: 22ID-85-L830-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

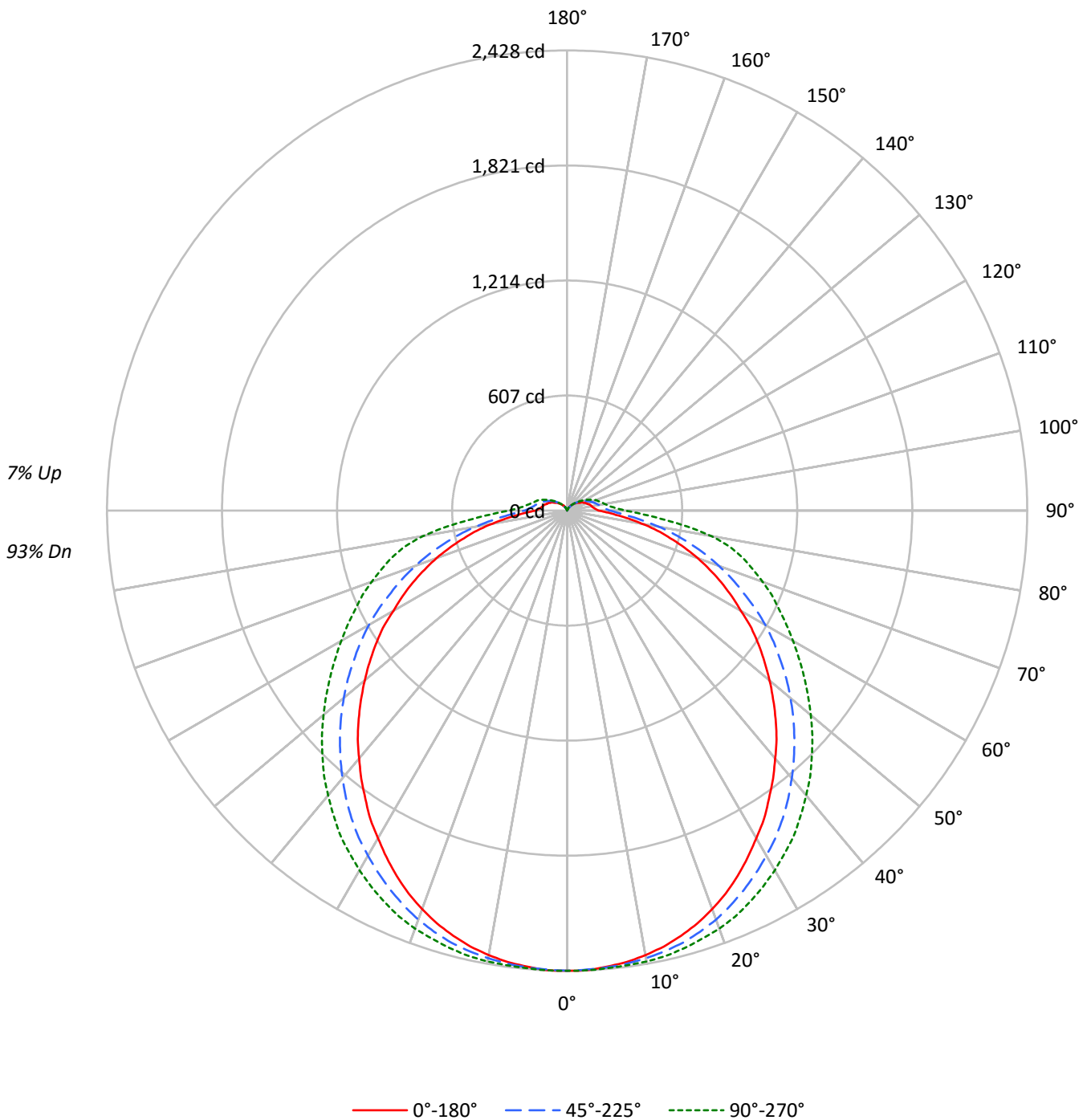
Lumens per Lamp: N/A
Luminaire Lumens: 8497.1 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 76.8
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°	6534	6534	6534
5°	6454	6437	6477
10°	6367	6356	6458
15°	6260	6278	6443
20°	6129	6180	6430
25°	5968	6056	6397
30°	5784	5926	6349
35°	5607	5797	6311
40°	5430	5639	6238
45°	5261	5482	6178
50°	5080	5319	6114
55°	4909	5143	6073
60°	4687	4976	6093
65°	4511	4735	6192
70°	4293	4511	6428
75°	3996	4194	6790
80°	3651	3804	6994
85°	3286	3335	6303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.2	2.7
10°-20°	665.3	7.8
20°-30°	1016.5	12.0
30°-40°	1237.4	14.6
40°-50°	1307.8	15.4
50°-60°	1234.5	14.5
60°-70°	1038.6	12.2
70°-80°	748.8	8.8
80°-90°	394.9	4.6
90°-100°	211.4	2.5
100°-110°	160.5	1.9
110°-120°	116.4	1.4
120°-130°	73.1	0.9
130°-140°	39.5	0.5
140°-150°	17.3	0.2
150°-160°	4.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1912.1	22.5
0°-40°	3149.4	37.1
0°-60°	5691.8	67.0
0°-90°	7874.1	92.7
90°-120°	488.4	5.7
90°-150°	618.2	7.3
90°-180°	623.0	7.3
0°-180°	8497.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2428	2428	2428	2428	2428	
5°	2416	2416	2420	2420	2424	230
15°	2322	2331	2360	2377	2390	655
25°	2127	2153	2208	2259	2280	980
35°	1856	1898	1983	2060	2089	1162
45°	1555	1602	1695	1788	1826	1200
55°	1233	1288	1373	1475	1526	1102
65°	898	949	1026	1153	1233	888
75°	564	610	670	801	958	598
85°	258	292	326	407	496	242
90°	165	195	225	267	305	95
95°	144	165	191	216	233	115
105°	123	136	153	170	178	128
115°	98	106	119	127	136	98
125°	72	72	85	85	89	65
135°	51	47	51	51	55	38
145°	30	25	25	25	30	19
155°	13	13	4	8	13	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°	2428.2	2428.2	2428.2	2428.2	2428.2
2.5°	2428.2	2423.9	2423.9	2423.9	2428.2
5°	2415.5	2415.5	2419.7	2419.7	2423.9
7.5°	2402.7	2402.7	2411.2	2415.5	2419.7
10°	2381.6	2385.8	2398.5	2407.0	2415.5
12.5°	2356.1	2360.4	2381.6	2398.5	2407.0
15°	2322.2	2330.7	2360.4	2377.3	2390.0
17.5°	2284.1	2296.8	2330.7	2356.1	2368.8
20°	2237.5	2254.4	2296.8	2330.7	2347.7
22.5°	2186.6	2203.6	2254.4	2296.8	2318.0
25°	2127.3	2152.7	2207.8	2258.7	2279.9
27.5°	2063.7	2093.4	2157.0	2216.3	2237.5
30°	1995.9	2029.8	2101.9	2165.4	2190.9
32.5°	1932.4	1966.3	2046.8	2114.6	2140.0
35°	1856.1	1898.5	1983.2	2059.5	2089.2
37.5°	1784.0	1826.4	1915.4	1995.9	2025.6
40°	1707.8	1750.1	1843.4	1932.4	1962.0
42.5°	1635.7	1678.1	1771.3	1864.6	1898.5
45°	1555.2	1601.8	1695.1	1788.3	1826.4
47.5°	1474.7	1521.3	1618.8	1716.2	1754.4
50°	1394.2	1445.0	1538.3	1635.7	1678.1
52.5°	1313.7	1364.5	1457.7	1559.5	1601.8
55°	1233.2	1288.2	1373.0	1474.7	1525.6
57.5°	1152.6	1207.7	1292.5	1398.4	1449.3
60°	1059.4	1123.0	1207.7	1317.9	1377.2
62.5°	978.9	1034.0	1118.7	1233.2	1305.2
65°	898.4	949.2	1025.5	1152.6	1233.2
67.5°	813.6	868.7	940.8	1059.4	1169.6
70°	733.1	779.7	851.8	974.7	1097.5
72.5°	648.4	695.0	762.8	889.9	1025.5
75°	563.6	610.2	669.5	800.9	957.7
77.5°	487.3	525.5	580.6	707.7	877.2
80°	402.6	440.7	491.6	606.0	771.3
82.5°	326.3	360.2	402.6	504.3	635.6
85°	258.5	292.4	326.3	406.8	495.8
87.5°	207.6	233.1	267.0	326.3	385.6
90°	165.3	194.9	224.6	267.0	305.1
92.5°	152.6	178.0	203.4	237.3	262.7
95°	144.1	165.3	190.7	216.1	233.1
97.5°	135.6	156.8	178.0	203.4	216.1
100°	131.4	148.3	169.5	190.7	199.2
102.5°	127.1	139.8	161.0	178.0	190.7
105°	122.9	135.6	152.6	169.5	178.0
107.5°	114.4	127.1	144.1	161.0	169.5
110°	110.2	118.7	135.6	148.3	161.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.9	114.4	127.1	139.8	148.3
115°	97.5	105.9	118.7	127.1	135.6
117.5°	93.2	97.5	110.2	114.4	122.9
120°	84.8	89.0	101.7	105.9	110.2
122.5°	76.3	80.5	93.2	93.2	101.7
125°	72.0	72.0	84.8	84.8	89.0
127.5°	67.8	67.8	76.3	76.3	80.5
130°	59.3	59.3	67.8	67.8	67.8
132.5°	55.1	50.9	59.3	59.3	63.6
135°	50.9	46.6	50.9	50.9	55.1
137.5°	42.4	42.4	46.6	42.4	46.6
140°	38.1	33.9	38.1	38.1	42.4
142.5°	33.9	29.7	33.9	29.7	33.9
145°	29.7	25.4	25.4	25.4	29.7
147.5°	25.4	21.2	21.2	21.2	25.4
150°	21.2	17.0	17.0	17.0	21.2
152.5°	17.0	12.7	8.5	12.7	17.0
155°	12.7	12.7	4.2	8.5	12.7
157.5°	8.5	8.5	0.0	4.2	8.5
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)