

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: P384634

Luminaire Tested: **22ID-45-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384634
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-45-L830-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

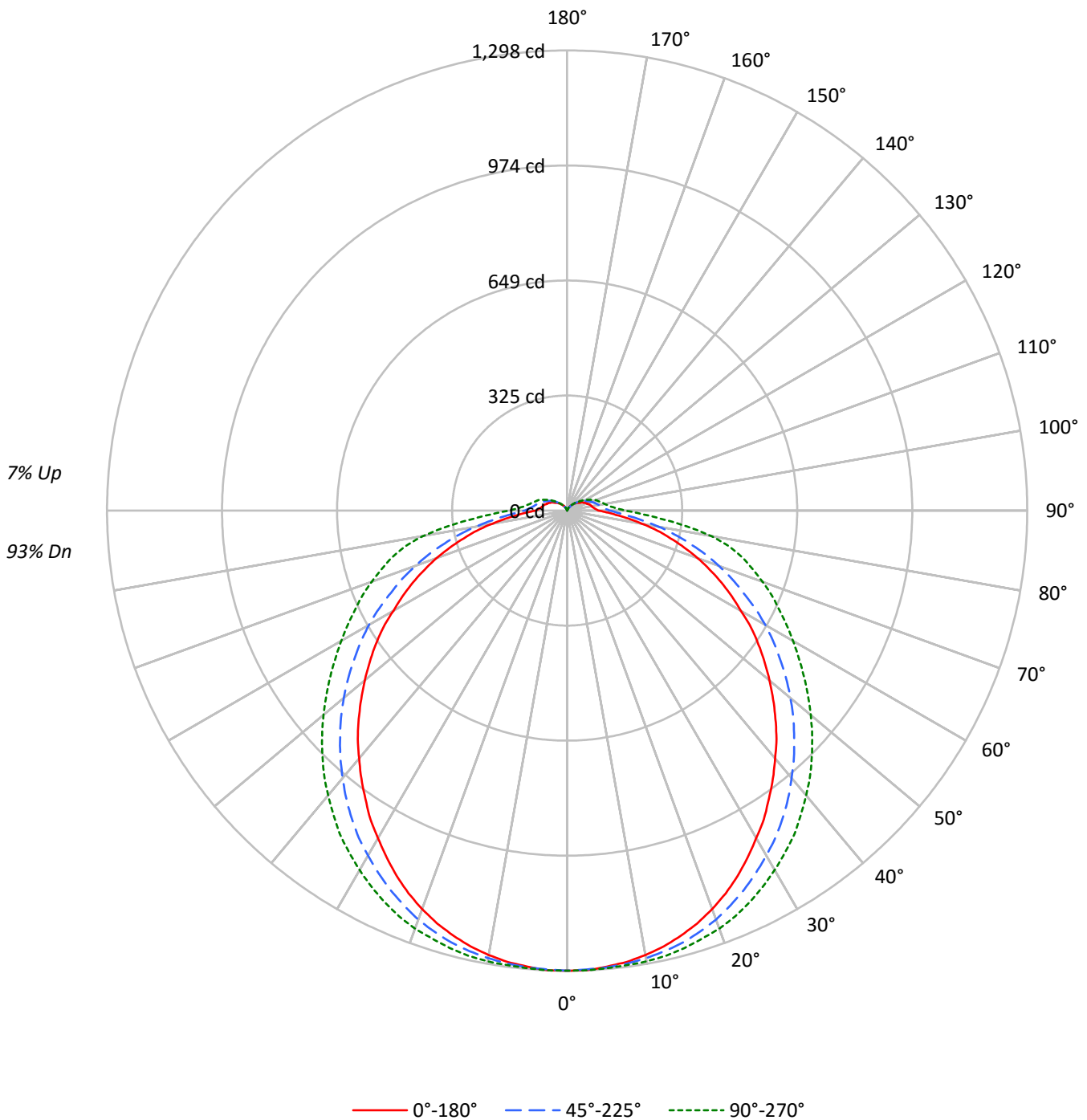
Lumens per Lamp: N/A
Luminaire Lumens: 4541.4 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 37.2
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°	3492	3492	3492
5°	3450	3440	3462
10°	3403	3397	3452
15°	3346	3355	3443
20°	3276	3303	3437
25°	3190	3237	3419
30°	3092	3167	3393
35°	2997	3099	3373
40°	2902	3014	3334
45°	2812	2930	3302
50°	2715	2843	3268
55°	2624	2749	3246
60°	2505	2660	3257
65°	2411	2531	3310
70°	2295	2411	3435
75°	2135	2241	3629
80°	1951	2033	3738
85°	1757	1783	3369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	2.7
10°-20°	355.6	7.8
20°-30°	543.3	12.0
30°-40°	661.3	14.6
40°-50°	699.0	15.4
50°-60°	659.8	14.5
60°-70°	555.1	12.2
70°-80°	400.2	8.8
80°-90°	211.1	4.6
90°-100°	113.0	2.5
100°-110°	85.8	1.9
110°-120°	62.2	1.4
120°-130°	39.1	0.9
130°-140°	21.1	0.5
140°-150°	9.2	0.2
150°-160°	2.5	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1021.9	22.5
0°-40°	1683.3	37.1
0°-60°	3042.1	67.0
0°-90°	4208.4	92.7
90°-120°	261.0	5.7
90°-150°	330.4	7.3
90°-180°	333.0	7.3
0°-180°	4541.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1291	1291	1293	1293	1296	123
15°	1241	1246	1262	1271	1277	350
25°	1137	1151	1180	1207	1218	524
35°	992	1015	1060	1101	1117	621
45°	831	856	906	956	976	641
55°	659	688	734	788	815	589
65°	480	507	548	616	659	475
75°	301	326	358	428	512	320
85°	138	156	174	217	265	129
90°	88	104	120	143	163	51
95°	77	88	102	116	125	61
105°	66	72	82	91	95	69
115°	52	57	63	68	72	52
125°	38	38	45	45	48	35
135°	27	25	27	27	29	21
145°	16	14	14	14	16	10
155°	7	7	2	4	7	3
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°	1297.8	1297.8	1297.8	1297.8	1297.8
2.5°	1297.8	1295.5	1295.5	1295.5	1297.8
5°	1291.0	1291.0	1293.2	1293.2	1295.5
7.5°	1284.2	1284.2	1288.7	1291.0	1293.2
10°	1272.9	1275.1	1281.9	1286.4	1291.0
12.5°	1259.3	1261.5	1272.9	1281.9	1286.4
15°	1241.1	1245.7	1261.5	1270.6	1277.4
17.5°	1220.8	1227.6	1245.7	1259.3	1266.1
20°	1195.9	1204.9	1227.6	1245.7	1254.7
22.5°	1168.7	1177.7	1204.9	1227.6	1238.9
25°	1137.0	1150.6	1180.0	1207.2	1218.5
27.5°	1103.0	1118.8	1152.8	1184.5	1195.9
30°	1066.8	1084.9	1123.4	1157.3	1170.9
32.5°	1032.8	1050.9	1093.9	1130.2	1143.8
35°	992.0	1014.7	1060.0	1100.7	1116.6
37.5°	953.5	976.2	1023.7	1066.8	1082.6
40°	912.7	935.4	985.2	1032.8	1048.6
42.5°	874.2	896.9	946.7	996.5	1014.7
45°	831.2	856.1	905.9	955.8	976.2
47.5°	788.2	813.1	865.2	917.3	937.7
50°	745.1	772.3	822.1	874.2	896.9
52.5°	702.1	729.3	779.1	833.5	856.1
55°	659.1	688.5	733.8	788.2	815.4
57.5°	616.0	645.5	690.8	747.4	774.6
60°	566.2	600.2	645.5	704.4	736.1
62.5°	523.2	552.6	597.9	659.1	697.6
65°	480.2	507.3	548.1	616.0	659.1
67.5°	434.9	464.3	502.8	566.2	625.1
70°	391.8	416.7	455.2	520.9	586.6
72.5°	346.5	371.4	407.7	475.6	548.1
75°	301.2	326.1	357.8	428.1	511.9
77.5°	260.5	280.8	310.3	378.2	468.8
80°	215.2	235.5	262.7	323.9	412.2
82.5°	174.4	192.5	215.2	269.5	339.7
85°	138.2	156.3	174.4	217.4	265.0
87.5°	111.0	124.6	142.7	174.4	206.1
90°	88.3	104.2	120.0	142.7	163.1
92.5°	81.5	95.1	108.7	126.8	140.4
95°	77.0	88.3	101.9	115.5	124.6
97.5°	72.5	83.8	95.1	108.7	115.5
100°	70.2	79.3	90.6	101.9	106.4
102.5°	67.9	74.7	86.1	95.1	101.9
105°	65.7	72.5	81.5	90.6	95.1
107.5°	61.2	67.9	77.0	86.1	90.6
110°	58.9	63.4	72.5	79.3	86.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	56.6	61.2	67.9	74.7	79.3
115°	52.1	56.6	63.4	67.9	72.5
117.5°	49.8	52.1	58.9	61.2	65.7
120°	45.3	47.6	54.4	56.6	58.9
122.5°	40.8	43.0	49.8	49.8	54.4
125°	38.5	38.5	45.3	45.3	47.6
127.5°	36.2	36.2	40.8	40.8	43.0
130°	31.7	31.7	36.2	36.2	36.2
132.5°	29.4	27.2	31.7	31.7	34.0
135°	27.2	24.9	27.2	27.2	29.4
137.5°	22.6	22.6	24.9	22.6	24.9
140°	20.4	18.1	20.4	20.4	22.6
142.5°	18.1	15.9	18.1	15.9	18.1
145°	15.9	13.6	13.6	13.6	15.9
147.5°	13.6	11.3	11.3	11.3	13.6
150°	11.3	9.1	9.1	9.1	11.3
152.5°	9.1	6.8	4.5	6.8	9.1
155°	6.8	6.8	2.3	4.5	6.8
157.5°	4.5	4.5	0.0	2.3	4.5
160°	2.3	2.3	0.0	2.3	2.3
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)