

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: P384581

Luminaire Tested: **14ID-45-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384581
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-45-L850-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

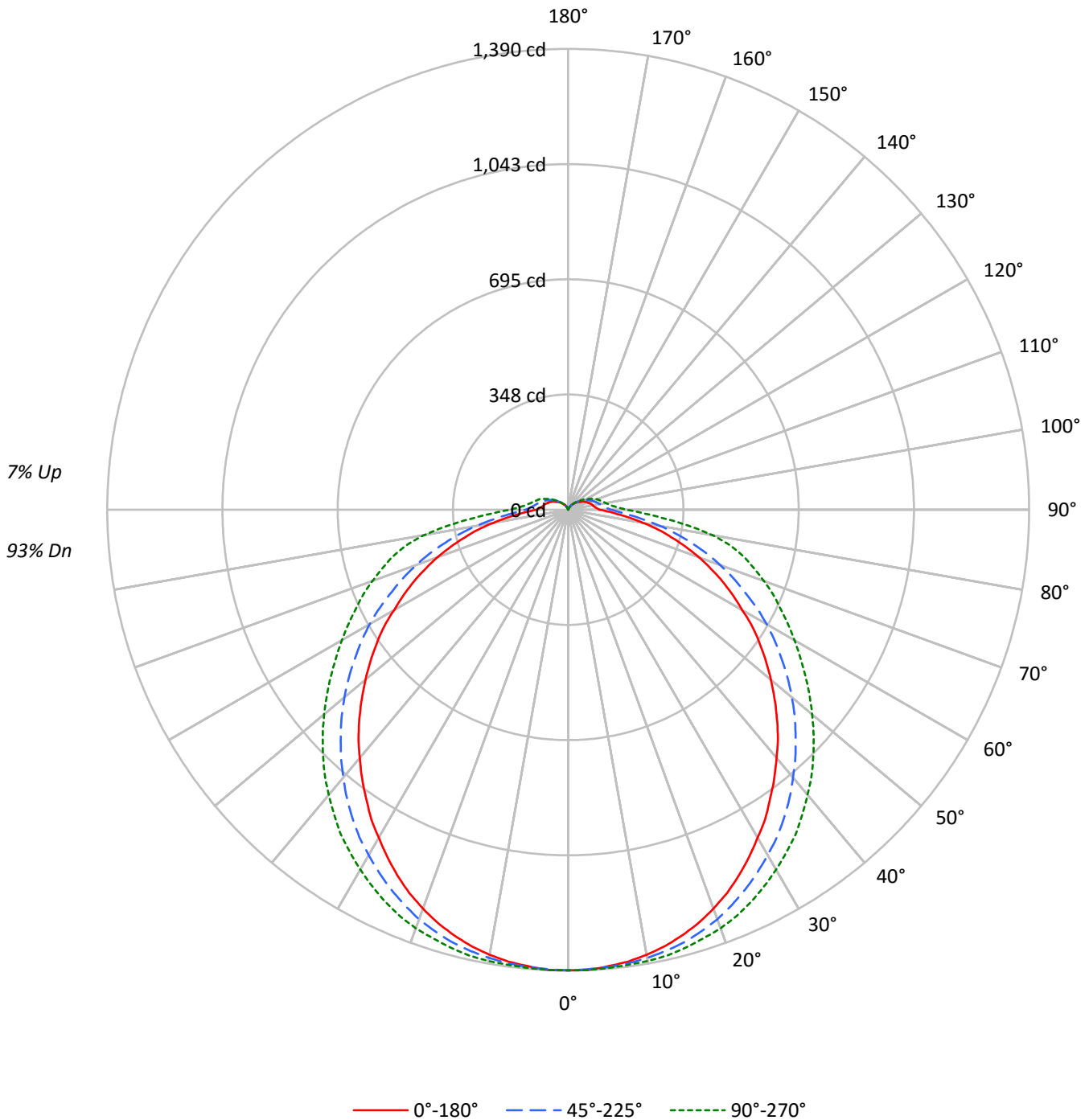
Lumens per Lamp: N/A
Luminaire Lumens: 4863.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 38.5
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°	3739	3739	3739
5°	3714	3670	3667
10°	3684	3610	3618
15°	3641	3553	3571
20°	3585	3484	3527
25°	3513	3401	3470
30°	3426	3315	3405
35°	3343	3229	3343
40°	3262	3126	3261
45°	3188	3024	3182
50°	3109	2917	3098
55°	3040	2802	3019
60°	2944	2690	2960
65°	2887	2536	2925
70°	2818	2387	2930
75°	2720	2184	2948
80°	2636	1935	2829
85°	2664	1635	2271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	2.7
10°-20°	380.8	7.8
20°-30°	581.8	12.0
30°-40°	708.2	14.6
40°-50°	748.5	15.4
50°-60°	706.5	14.5
60°-70°	594.4	12.2
70°-80°	428.5	8.8
80°-90°	226.0	4.6
90°-100°	121.0	2.5
100°-110°	91.9	1.9
110°-120°	66.6	1.4
120°-130°	41.8	0.9
130°-140°	22.6	0.5
140°-150°	9.9	0.2
150°-160°	2.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1094.3	22.5
0°-40°	1802.4	37.1
0°-60°	3257.4	67.0
0°-90°	4506.4	92.7
90°-120°	279.5	5.7
90°-150°	353.9	7.3
90°-180°	357.0	7.3
0°-180°	4863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1382	1382	1385	1385	1387	131
15°	1329	1334	1351	1360	1368	375
25°	1218	1232	1264	1293	1305	561
35°	1062	1086	1135	1179	1196	665
45°	890	917	970	1023	1045	687
55°	706	737	786	844	873	631
65°	514	543	587	660	706	508
75°	323	349	383	458	548	342
85°	148	167	187	233	284	139
90°	95	112	128	153	175	54
95°	82	95	109	124	133	66
105°	70	78	87	97	102	74
115°	56	61	68	73	78	56
125°	41	41	48	48	51	37
135°	29	27	29	29	32	22
145°	17	15	15	15	17	11
155°	7	7	2	5	7	4
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°	1389.6	1389.6	1389.6	1389.6	1389.6
2.5°	1389.6	1387.2	1387.2	1387.2	1389.6
5°	1382.4	1382.4	1384.8	1384.8	1387.2
7.5°	1375.1	1375.1	1379.9	1382.4	1384.8
10°	1363.0	1365.4	1372.7	1377.5	1382.4
12.5°	1348.4	1350.8	1363.0	1372.7	1377.5
15°	1329.0	1333.9	1350.8	1360.5	1367.8
17.5°	1307.2	1314.5	1333.9	1348.4	1355.7
20°	1280.5	1290.2	1314.5	1333.9	1343.6
22.5°	1251.4	1261.1	1290.2	1314.5	1326.6
25°	1217.5	1232.0	1263.5	1292.6	1304.8
27.5°	1181.1	1198.1	1234.4	1268.4	1280.5
30°	1142.3	1161.7	1202.9	1239.3	1253.8
32.5°	1105.9	1125.3	1171.4	1210.2	1224.7
35°	1062.2	1086.5	1135.0	1178.7	1195.6
37.5°	1021.0	1045.3	1096.2	1142.3	1159.2
40°	977.4	1001.6	1055.0	1105.9	1122.9
42.5°	936.1	960.4	1013.7	1067.1	1086.5
45°	890.1	916.7	970.1	1023.4	1045.3
47.5°	844.0	870.6	926.4	982.2	1004.0
50°	797.9	827.0	880.4	936.1	960.4
52.5°	751.8	780.9	834.3	892.5	916.7
55°	705.7	737.3	785.8	844.0	873.1
57.5°	659.7	691.2	739.7	800.3	829.4
60°	606.3	642.7	691.2	754.2	788.2
62.5°	560.2	591.8	640.3	705.7	747.0
65°	514.1	543.2	586.9	659.7	705.7
67.5°	465.6	497.2	538.4	606.3	669.4
70°	419.6	446.2	487.5	557.8	628.1
72.5°	371.1	397.7	436.5	509.3	586.9
75°	322.6	349.2	383.2	458.4	548.1
77.5°	278.9	300.7	332.3	405.0	502.0
80°	230.4	252.2	281.3	346.8	441.4
82.5°	186.7	206.1	230.4	288.6	363.8
85°	147.9	167.3	186.7	232.8	283.7
87.5°	118.8	133.4	152.8	186.7	220.7
90°	94.6	111.6	128.5	152.8	174.6
92.5°	87.3	101.9	116.4	135.8	150.4
95°	82.5	94.6	109.1	123.7	133.4
97.5°	77.6	89.7	101.9	116.4	123.7
100°	75.2	84.9	97.0	109.1	114.0
102.5°	72.8	80.0	92.2	101.9	109.1
105°	70.3	77.6	87.3	97.0	101.9
107.5°	65.5	72.8	82.5	92.2	97.0
110°	63.1	67.9	77.6	84.9	92.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	60.6	65.5	72.8	80.0	84.9
115°	55.8	60.6	67.9	72.8	77.6
117.5°	53.4	55.8	63.1	65.5	70.3
120°	48.5	50.9	58.2	60.6	63.1
122.5°	43.7	46.1	53.4	53.4	58.2
125°	41.2	41.2	48.5	48.5	50.9
127.5°	38.8	38.8	43.7	43.7	46.1
130°	34.0	34.0	38.8	38.8	38.8
132.5°	31.5	29.1	34.0	34.0	36.4
135°	29.1	26.7	29.1	29.1	31.5
137.5°	24.3	24.3	26.7	24.3	26.7
140°	21.8	19.4	21.8	21.8	24.3
142.5°	19.4	17.0	19.4	17.0	19.4
145°	17.0	14.6	14.6	14.6	17.0
147.5°	14.6	12.1	12.1	12.1	14.6
150°	12.1	9.7	9.7	9.7	12.1
152.5°	9.7	7.3	4.9	7.3	9.7
155°	7.3	7.3	2.4	4.9	7.3
157.5°	4.9	4.9	0.0	2.4	4.9
160°	2.4	2.4	0.0	2.4	2.4
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)