

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: P384580

Luminaire Tested: **14ID-45-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384580
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-L840-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

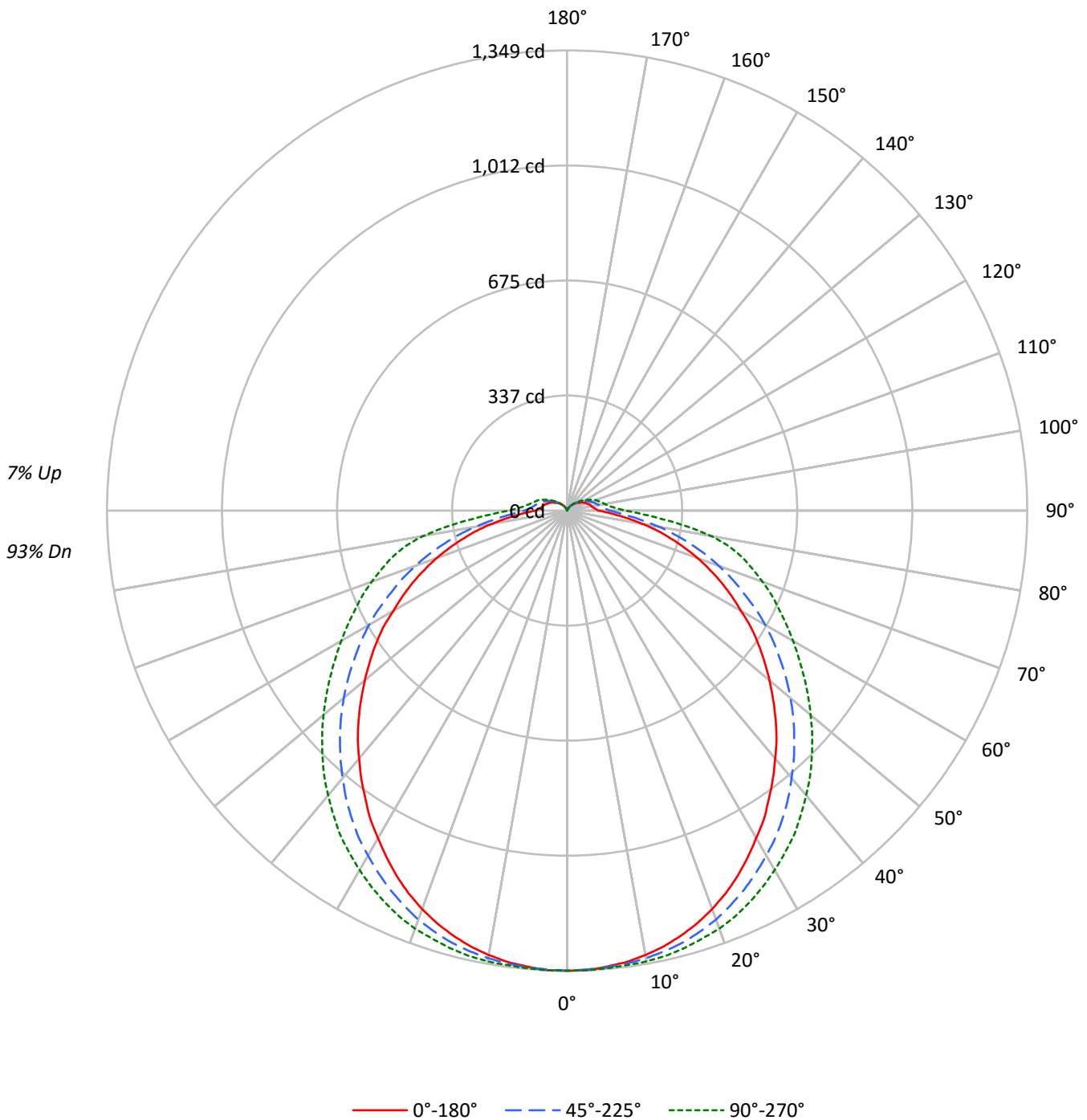
Lumens per Lamp: N/A
Luminaire Lumens: 4719.9 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

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°	3630	3630	3630
5°	3605	3562	3559
10°	3575	3504	3511
15°	3534	3448	3466
20°	3480	3382	3423
25°	3409	3301	3368
30°	3325	3217	3305
35°	3245	3134	3244
40°	3166	3034	3165
45°	3094	2935	3089
50°	3017	2832	3006
55°	2950	2720	2930
60°	2858	2611	2873
65°	2802	2461	2839
70°	2734	2316	2844
75°	2640	2119	2861
80°	2558	1878	2746
85°	2586	1587	2204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	2.7
10°-20°	369.6	7.8
20°-30°	564.6	12.0
30°-40°	687.3	14.6
40°-50°	726.5	15.4
50°-60°	685.7	14.5
60°-70°	576.9	12.2
70°-80°	415.9	8.8
80°-90°	219.4	4.6
90°-100°	117.4	2.5
100°-110°	89.2	1.9
110°-120°	64.7	1.4
120°-130°	40.6	0.9
130°-140°	21.9	0.5
140°-150°	9.6	0.2
150°-160°	2.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1062.1	22.5
0°-40°	1749.4	37.1
0°-60°	3161.6	67.0
0°-90°	4373.9	92.7
90°-120°	271.3	5.7
90°-150°	343.4	7.3
90°-180°	346.0	7.3
0°-180°	4719.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1342	1342	1344	1344	1346	128
15°	1290	1295	1311	1320	1328	364
25°	1182	1196	1226	1255	1266	544
35°	1031	1054	1102	1144	1160	646
45°	864	890	942	993	1014	667
55°	685	716	763	819	847	612
65°	499	527	570	640	685	493
75°	313	339	372	445	532	332
85°	144	162	181	226	275	135
90°	92	108	125	148	170	53
95°	80	92	106	120	130	64
105°	68	75	85	94	99	71
115°	54	59	66	71	75	54
125°	40	40	47	47	49	36
135°	28	26	28	28	31	21
145°	16	14	14	14	16	10
155°	7	7	2	5	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°	1348.8	1348.8	1348.8	1348.8	1348.8
2.5°	1348.8	1346.4	1346.4	1346.4	1348.8
5°	1341.7	1341.7	1344.1	1344.1	1346.4
7.5°	1334.7	1334.7	1339.4	1341.7	1344.1
10°	1322.9	1325.2	1332.3	1337.0	1341.7
12.5°	1308.8	1311.1	1322.9	1332.3	1337.0
15°	1289.9	1294.6	1311.1	1320.5	1327.6
17.5°	1268.7	1275.8	1294.6	1308.8	1315.8
20°	1242.9	1252.3	1275.8	1294.6	1304.1
22.5°	1214.6	1224.0	1252.3	1275.8	1287.6
25°	1181.7	1195.8	1226.4	1254.6	1266.4
27.5°	1146.3	1162.8	1198.1	1231.1	1242.9
30°	1108.7	1127.5	1167.5	1202.8	1217.0
32.5°	1073.4	1092.2	1136.9	1174.6	1188.7
35°	1031.0	1054.5	1101.6	1144.0	1160.5
37.5°	991.0	1014.5	1064.0	1108.7	1125.2
40°	948.6	972.2	1023.9	1073.4	1089.9
42.5°	908.6	932.1	983.9	1035.7	1054.5
45°	863.9	889.8	941.6	993.3	1014.5
47.5°	819.2	845.0	899.2	953.3	974.5
50°	774.4	802.7	854.5	908.6	932.1
52.5°	729.7	758.0	809.7	866.2	889.8
55°	685.0	715.6	762.7	819.2	847.4
57.5°	640.3	670.9	717.9	776.8	805.0
60°	588.5	623.8	670.9	732.1	765.0
62.5°	543.7	574.3	621.4	685.0	725.0
65°	499.0	527.3	569.6	640.3	685.0
67.5°	451.9	482.5	522.6	588.5	649.7
70°	407.2	433.1	473.1	541.4	609.7
72.5°	360.1	386.0	423.7	494.3	569.6
75°	313.1	339.0	371.9	444.9	532.0
77.5°	270.7	291.9	322.5	393.1	487.3
80°	223.6	244.8	273.1	336.6	428.4
82.5°	181.2	200.1	223.6	280.1	353.1
85°	143.6	162.4	181.2	226.0	275.4
87.5°	115.3	129.5	148.3	181.2	214.2
90°	91.8	108.3	124.8	148.3	169.5
92.5°	84.7	98.9	113.0	131.8	145.9
95°	80.0	91.8	105.9	120.0	129.5
97.5°	75.3	87.1	98.9	113.0	120.0
100°	73.0	82.4	94.2	105.9	110.6
102.5°	70.6	77.7	89.4	98.9	105.9
105°	68.3	75.3	84.7	94.2	98.9
107.5°	63.6	70.6	80.0	89.4	94.2
110°	61.2	65.9	75.3	82.4	89.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.8	63.6	70.6	77.7	82.4
115°	54.1	58.8	65.9	70.6	75.3
117.5°	51.8	54.1	61.2	63.6	68.3
120°	47.1	49.4	56.5	58.8	61.2
122.5°	42.4	44.7	51.8	51.8	56.5
125°	40.0	40.0	47.1	47.1	49.4
127.5°	37.7	37.7	42.4	42.4	44.7
130°	33.0	33.0	37.7	37.7	37.7
132.5°	30.6	28.2	33.0	33.0	35.3
135°	28.2	25.9	28.2	28.2	30.6
137.5°	23.5	23.5	25.9	23.5	25.9
140°	21.2	18.8	21.2	21.2	23.5
142.5°	18.8	16.5	18.8	16.5	18.8
145°	16.5	14.1	14.1	14.1	16.5
147.5°	14.1	11.8	11.8	11.8	14.1
150°	11.8	9.4	9.4	9.4	11.8
152.5°	9.4	7.1	4.7	7.1	9.4
155°	7.1	7.1	2.4	4.7	7.1
157.5°	4.7	4.7	0.0	2.4	4.7
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)