

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: P384132

Luminaire Tested: **22ID-45-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384132  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-45-L840-CFD1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

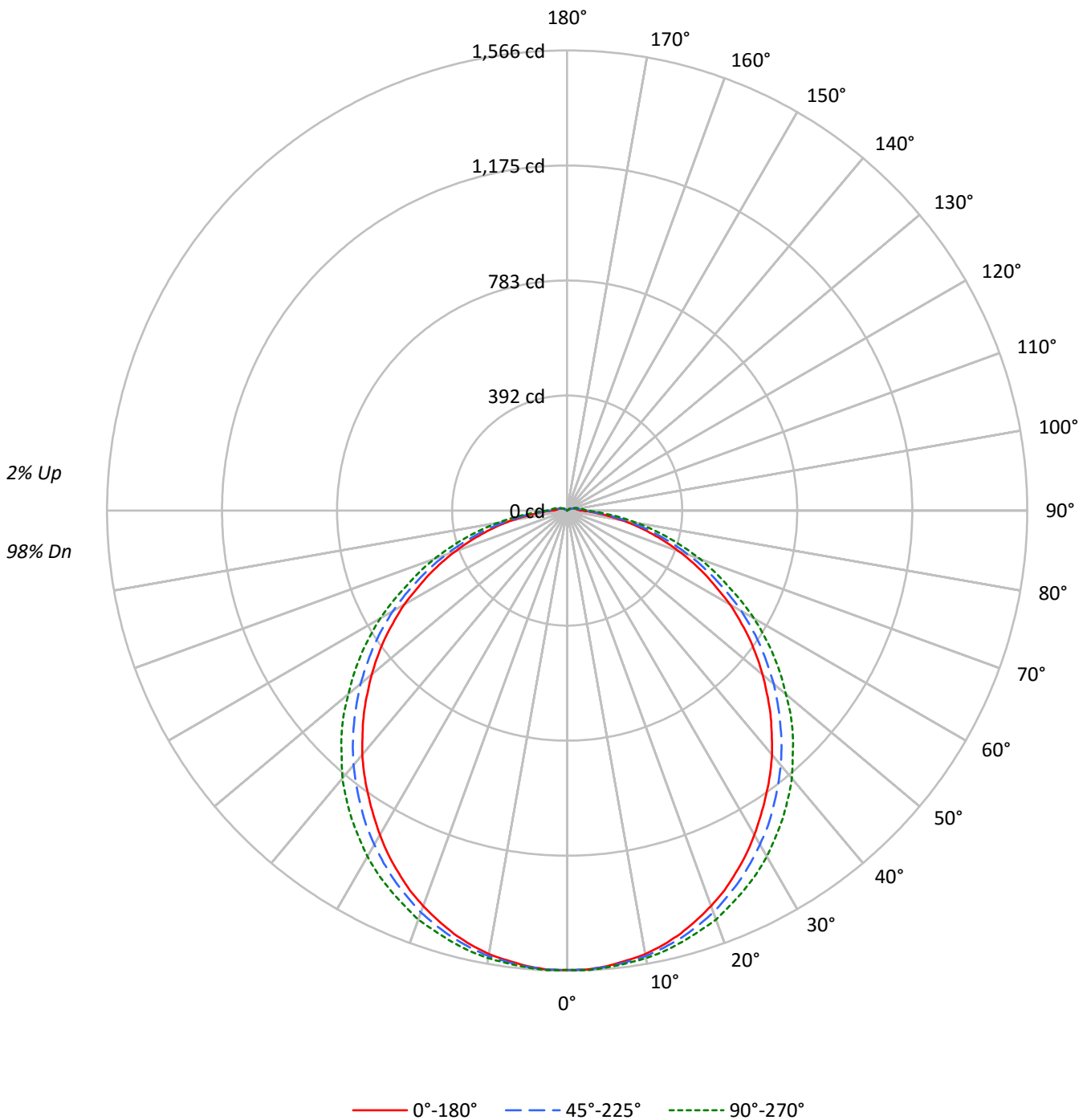
Lumens per Lamp: N/A  
Luminaire Lumens: 4630.0 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 37.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4207	4207	4207
5°	4189	4189	4201
10°	4158	4164	4196
15°	4107	4127	4184
20°	4039	4080	4178
25°	3959	4016	4150
30°	3868	3943	4124
35°	3769	3866	4084
40°	3681	3787	4039
45°	3576	3687	3971
50°	3464	3590	3876
55°	3347	3474	3794
60°	3217	3347	3688
65°	3046	3158	3512
70°	2850	2972	3397
75°	2619	2721	3211
80°	2354	2427	3001
85°	2111	2166	2847



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	3.2
10°-20°	424.4	9.2
20°-30°	640.8	13.8
30°-40°	767.8	16.6
40°-50°	793.8	17.1
50°-60°	718.8	15.5
60°-70°	556.2	12.0
70°-80°	341.7	7.4
80°-90°	135.8	2.9
90°-100°	49.5	1.1
100°-110°	30.4	0.7
110°-120°	15.6	0.3
120°-130°	6.7	0.1
130°-140°	0.5	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1213.2	26.2
0°-40°	1981.0	42.8
0°-60°	3493.6	75.5
0°-90°	4527.3	97.8
90°-120°	95.6	2.1
90°-150°	102.7	2.2
90°-180°	103.0	2.2
0°-180°	4630.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1556	1556	1559	1559	1561	148
15°	1490	1493	1505	1514	1519	420
25°	1359	1368	1390	1413	1425	626
35°	1181	1195	1225	1258	1279	739
45°	979	991	1026	1068	1087	754
55°	756	772	803	838	857	675
65°	521	533	559	587	601	515
75°	291	305	319	340	357	310
85°	101	108	117	129	136	101
90°	47	54	59	66	70	28
95°	35	40	45	49	54	28
105°	26	26	28	30	33	27
115°	16	14	14	16	19	17
125°	9	7	5	7	9	9
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
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°	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1563.3	1561.0	1563.3	1563.3	1565.6
5°	1556.3	1556.3	1558.6	1558.6	1561.0
7.5°	1544.5	1544.5	1549.2	1551.6	1553.9
10°	1532.8	1532.8	1539.8	1542.2	1546.9
12.5°	1514.0	1516.4	1523.4	1530.4	1535.1
15°	1490.5	1492.9	1504.6	1514.0	1518.7
17.5°	1462.4	1467.1	1481.1	1495.2	1499.9
20°	1431.9	1438.9	1455.3	1471.8	1481.1
22.5°	1399.0	1403.7	1422.5	1443.6	1453.0
25°	1359.1	1368.5	1389.6	1413.1	1424.8
27.5°	1319.2	1328.6	1352.0	1380.2	1394.3
30°	1274.6	1284.0	1312.1	1342.7	1359.1
32.5°	1227.6	1239.4	1272.2	1302.8	1319.2
35°	1180.7	1194.8	1225.3	1258.2	1279.3
37.5°	1133.7	1145.5	1178.3	1213.6	1234.7
40°	1084.5	1096.2	1131.4	1166.6	1190.1
42.5°	1030.5	1044.5	1079.8	1117.3	1136.1
45°	978.8	990.6	1025.8	1068.0	1086.8
47.5°	922.5	938.9	971.8	1011.7	1032.8
50°	868.5	882.6	917.8	955.4	971.8
52.5°	812.2	826.2	859.1	896.7	915.4
55°	755.8	772.3	802.8	838.0	856.8
57.5°	697.1	713.6	744.1	774.6	795.7
60°	640.8	657.2	685.4	715.9	734.7
62.5°	577.4	591.5	622.0	654.9	669.0
65°	521.1	532.8	558.7	586.8	600.9
67.5°	462.4	476.5	500.0	525.8	542.2
70°	403.7	420.2	438.9	462.4	481.2
72.5°	347.4	361.5	377.9	401.4	417.8
75°	291.1	305.1	319.2	340.4	356.8
77.5°	241.8	248.8	262.9	281.7	298.1
80°	187.8	197.2	208.9	227.7	239.4
82.5°	140.8	150.2	159.6	173.7	185.4
85°	100.9	108.0	117.4	129.1	136.1
87.5°	68.1	75.1	82.2	91.5	98.6
90°	46.9	54.0	58.7	65.7	70.4
92.5°	39.9	44.6	49.3	54.0	58.7
95°	35.2	39.9	44.6	49.3	54.0
97.5°	32.9	35.2	39.9	44.6	46.9
100°	30.5	32.9	35.2	39.9	42.3
102.5°	28.2	28.2	32.9	35.2	37.6
105°	25.8	25.8	28.2	30.5	32.9
107.5°	23.5	23.5	25.8	25.8	30.5
110°	21.1	18.8	21.1	21.1	25.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	18.8	16.4	18.8	18.8	21.1
115°	16.4	14.1	14.1	16.4	18.8
117.5°	14.1	11.7	11.7	11.7	16.4
120°	14.1	11.7	9.4	9.4	14.1
122.5°	11.7	9.4	7.0	9.4	11.7
125°	9.4	7.0	4.7	7.0	9.4
127.5°	7.0	7.0	2.3	4.7	7.0
130°	7.0	4.7	2.3	4.7	4.7
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)