

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: P384584

Luminaire Tested: **14ID-50-L840-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384584  
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-50-L840-CFD3  
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

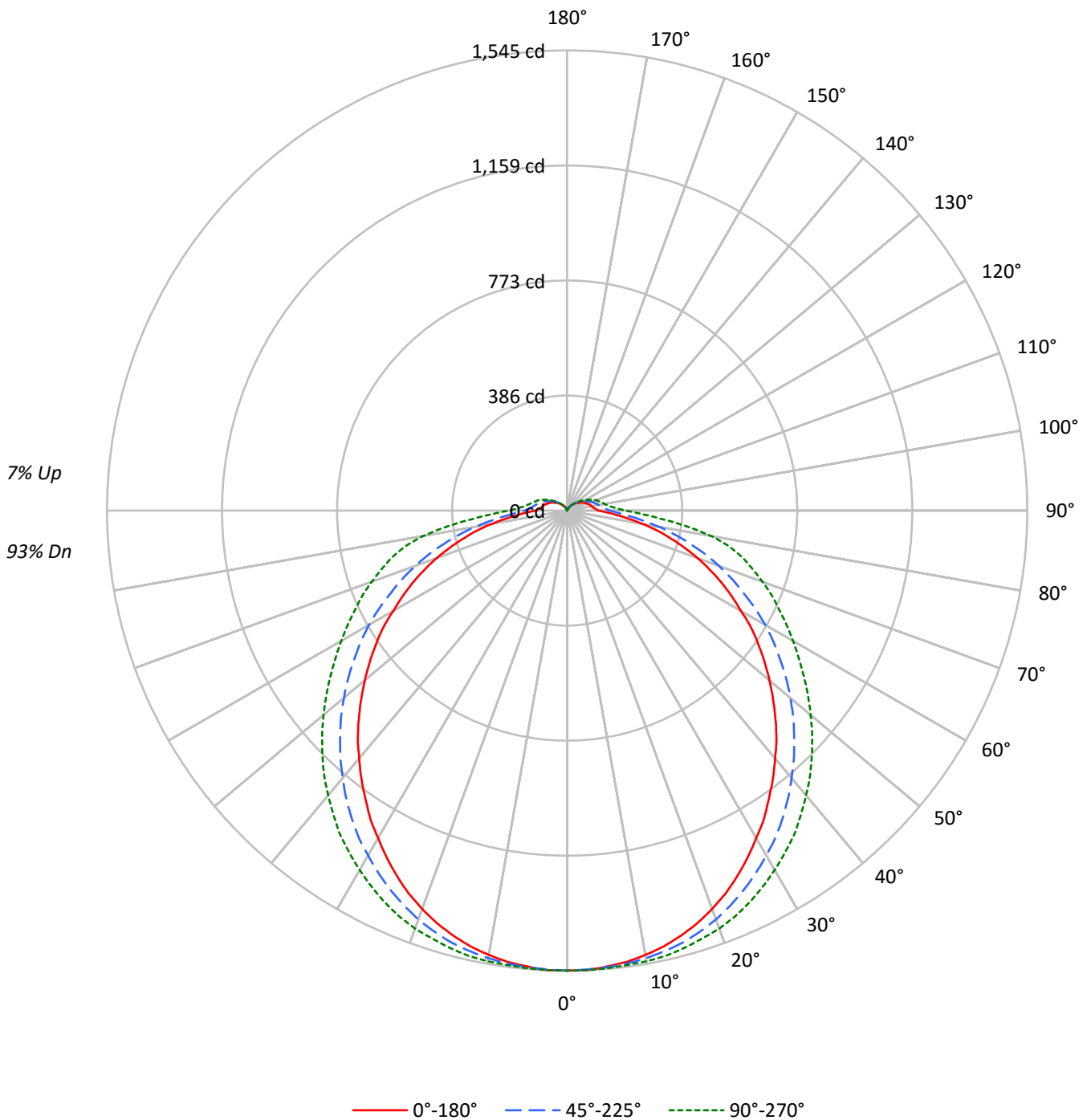
Lumens per Lamp: N/A  
Luminaire Lumens: 5405.1 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 43.1  
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	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°	4156	4156	4156
5°	4128	4079	4076
10°	4094	4013	4021
15°	4048	3949	3970
20°	3985	3872	3920
25°	3904	3780	3856
30°	3808	3684	3784
35°	3716	3589	3715
40°	3626	3475	3624
45°	3543	3361	3537
50°	3456	3243	3443
55°	3379	3115	3355
60°	3273	2990	3290
65°	3209	2818	3251
70°	3131	2652	3257
75°	3022	2427	3277
80°	2930	2151	3144
85°	2961	1818	2524



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.5	2.7
10°-20°	423.2	7.8
20°-30°	646.6	12.0
30°-40°	787.1	14.6
40°-50°	831.9	15.4
50°-60°	785.3	14.5
60°-70°	660.7	12.2
70°-80°	476.3	8.8
80°-90°	251.2	4.6
90°-100°	134.5	2.5
100°-110°	102.1	1.9
110°-120°	74.1	1.4
120°-130°	46.5	0.9
130°-140°	25.1	0.5
140°-150°	11.0	0.2
150°-160°	2.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1216.3	22.5
0°-40°	2003.4	37.1
0°-60°	3620.6	67.0
0°-90°	5008.8	92.7
90°-120°	310.7	5.7
90°-150°	393.3	7.3
90°-180°	396.0	7.3
0°-180°	5405.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1536	1536	1539	1539	1542	146
15°	1477	1483	1502	1512	1520	417
25°	1353	1369	1404	1437	1450	623
35°	1181	1208	1262	1310	1329	739
45°	989	1019	1078	1138	1162	764
55°	784	820	873	938	970	701
65°	572	604	652	733	784	565
75°	358	388	426	510	609	381
85°	164	186	208	259	315	154
90°	105	124	143	170	194	60
95°	92	105	121	138	148	73
105°	78	86	97	108	113	82
115°	62	67	76	81	86	62
125°	46	46	54	54	57	41
135°	32	30	32	32	35	24
145°	19	16	16	16	19	12
155°	8	8	3	5	8	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°	1544.6	1544.6	1544.6	1544.6	1544.6
2.5°	1544.6	1541.9	1541.9	1541.9	1544.6
5°	1536.5	1536.5	1539.2	1539.2	1541.9
7.5°	1528.4	1528.4	1533.8	1536.5	1539.2
10°	1514.9	1517.6	1525.7	1531.1	1536.5
12.5°	1498.8	1501.5	1514.9	1525.7	1531.1
15°	1477.2	1482.6	1501.5	1512.2	1520.3
17.5°	1452.9	1461.0	1482.6	1498.8	1506.8
20°	1423.3	1434.1	1461.0	1482.6	1493.4
22.5°	1390.9	1401.7	1434.1	1461.0	1474.5
25°	1353.2	1369.4	1404.4	1436.8	1450.2
27.5°	1312.8	1331.6	1372.1	1409.8	1423.3
30°	1269.6	1291.2	1337.0	1377.5	1393.6
32.5°	1229.2	1250.8	1302.0	1345.1	1361.3
35°	1180.7	1207.6	1261.5	1310.1	1328.9
37.5°	1134.9	1161.8	1218.4	1269.6	1288.5
40°	1086.3	1113.3	1172.6	1229.2	1248.1
42.5°	1040.5	1067.5	1126.8	1186.1	1207.6
45°	989.3	1018.9	1078.2	1137.5	1161.8
47.5°	938.1	967.7	1029.7	1091.7	1116.0
50°	886.9	919.2	978.5	1040.5	1067.5
52.5°	835.6	868.0	927.3	992.0	1018.9
55°	784.4	819.5	873.4	938.1	970.4
57.5°	733.2	768.2	822.2	889.6	921.9
60°	673.9	714.3	768.2	838.3	876.1
62.5°	622.7	657.7	711.6	784.4	830.2
65°	571.5	603.8	652.3	733.2	784.4
67.5°	517.6	552.6	598.4	673.9	744.0
70°	466.3	496.0	541.8	620.0	698.2
72.5°	412.4	442.1	485.2	566.1	652.3
75°	358.5	388.2	425.9	509.5	609.2
77.5°	310.0	334.3	369.3	450.2	558.0
80°	256.1	280.3	312.7	385.5	490.6
82.5°	207.6	229.1	256.1	320.8	404.3
85°	164.4	186.0	207.6	258.8	315.4
87.5°	132.1	148.3	169.8	207.6	245.3
90°	105.1	124.0	142.9	169.8	194.1
92.5°	97.0	113.2	129.4	151.0	167.1
95°	91.7	105.1	121.3	137.5	148.3
97.5°	86.3	99.7	113.2	129.4	137.5
100°	83.6	94.3	107.8	121.3	126.7
102.5°	80.9	89.0	102.4	113.2	121.3
105°	78.2	86.3	97.0	107.8	113.2
107.5°	72.8	80.9	91.7	102.4	107.8
110°	70.1	75.5	86.3	94.3	102.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	67.4	72.8	80.9	89.0	94.3
115°	62.0	67.4	75.5	80.9	86.3
117.5°	59.3	62.0	70.1	72.8	78.2
120°	53.9	56.6	64.7	67.4	70.1
122.5°	48.5	51.2	59.3	59.3	64.7
125°	45.8	45.8	53.9	53.9	56.6
127.5°	43.1	43.1	48.5	48.5	51.2
130°	37.7	37.7	43.1	43.1	43.1
132.5°	35.0	32.3	37.7	37.7	40.4
135°	32.3	29.7	32.3	32.3	35.0
137.5°	27.0	27.0	29.7	27.0	29.7
140°	24.3	21.6	24.3	24.3	27.0
142.5°	21.6	18.9	21.6	18.9	21.6
145°	18.9	16.2	16.2	16.2	18.9
147.5°	16.2	13.5	13.5	13.5	16.2
150°	13.5	10.8	10.8	10.8	13.5
152.5°	10.8	8.1	5.4	8.1	10.8
155°	8.1	8.1	2.7	5.4	8.1
157.5°	5.4	5.4	0.0	2.7	5.4
160°	2.7	2.7	0.0	2.7	2.7
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)