

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: P384641

Luminaire Tested: **22ID-50-L850-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384641  
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-50-L850-CFD3  
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

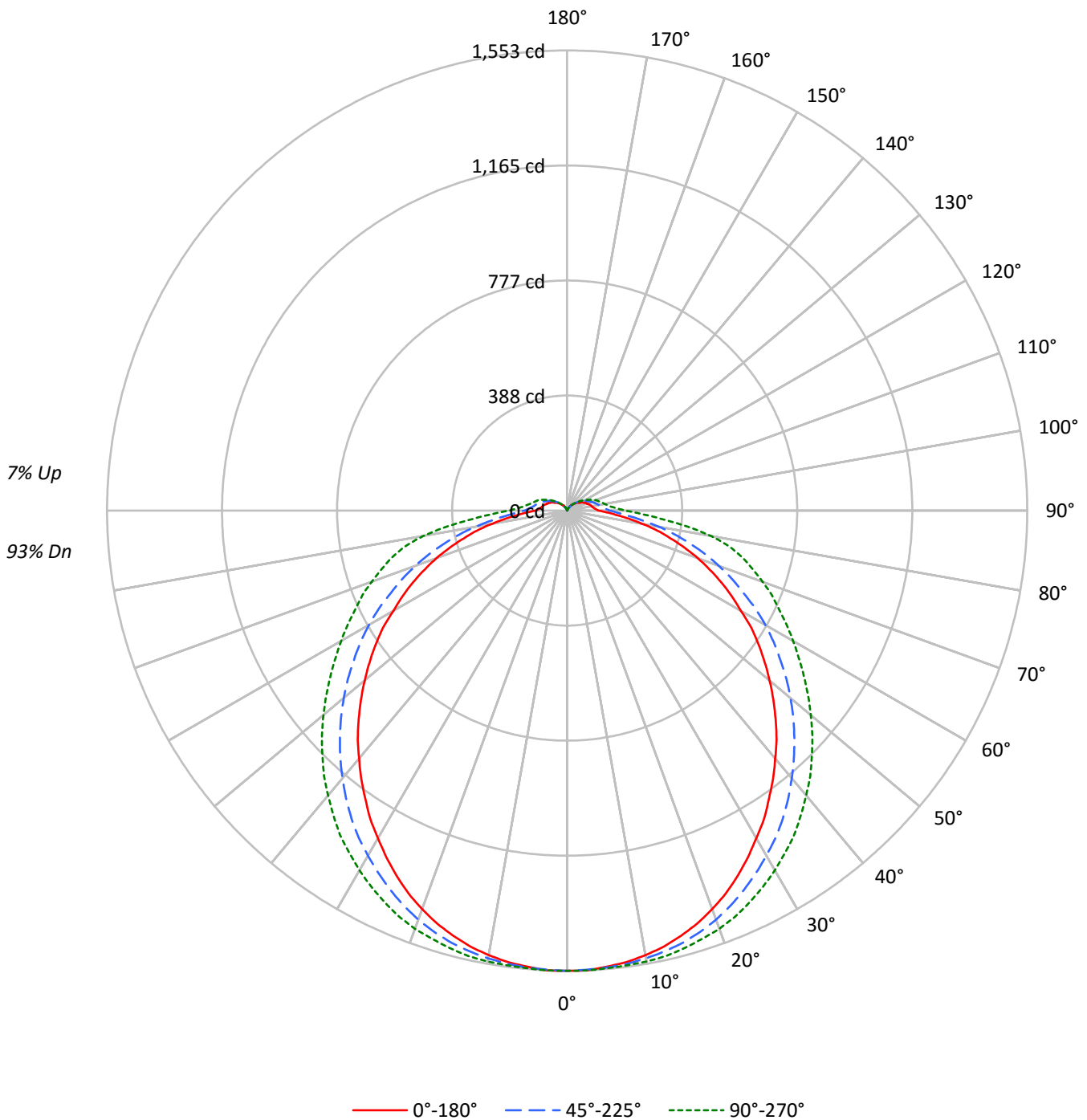
Lumens per Lamp: N/A  
Luminaire Lumens: 5435.6 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 41.5  
Input Voltage (V): NR  
Input Current (Ain): 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°	4180	4180	4180
5°	4129	4118	4143
10°	4073	4066	4131
15°	4004	4016	4121
20°	3920	3953	4114
25°	3818	3874	4092
30°	3700	3791	4062
35°	3586	3709	4037
40°	3473	3607	3990
45°	3366	3507	3952
50°	3250	3403	3911
55°	3140	3290	3885
60°	2998	3183	3898
65°	2886	3029	3961
70°	2747	2886	4112
75°	2556	2683	4343
80°	2335	2434	4474
85°	2103	2133	4032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.3	2.7
10°-20°	425.6	7.8
20°-30°	650.3	12.0
30°-40°	791.5	14.6
40°-50°	836.6	15.4
50°-60°	789.7	14.5
60°-70°	664.4	12.2
70°-80°	479.0	8.8
80°-90°	252.6	4.6
90°-100°	135.2	2.5
100°-110°	102.7	1.9
110°-120°	74.5	1.4
120°-130°	46.8	0.9
130°-140°	25.3	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°	1223.2	22.5
0°-40°	2014.7	37.1
0°-60°	3641.1	67.0
0°-90°	5037.1	92.7
90°-120°	312.4	5.7
90°-150°	395.5	7.3
90°-180°	399.0	7.3
0°-180°	5435.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1545	1545	1548	1548	1551	147
15°	1486	1491	1510	1521	1529	419
25°	1361	1377	1412	1445	1458	627
35°	1187	1214	1269	1318	1336	744
45°	995	1025	1084	1144	1168	768
55°	789	824	878	943	976	705
65°	575	607	656	737	789	568
75°	360	390	428	512	613	383
85°	165	187	209	260	317	155
90°	106	125	144	171	195	61
95°	92	106	122	138	149	73
105°	79	87	98	108	114	82
115°	62	68	76	81	87	63
125°	46	46	54	54	57	41
135°	32	30	32	32	35	25
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°	1553.3	1553.3	1553.3	1553.3	1553.3
2.5°	1553.3	1550.6	1550.6	1550.6	1553.3
5°	1545.2	1545.2	1547.9	1547.9	1550.6
7.5°	1537.0	1537.0	1542.5	1545.2	1547.9
10°	1523.5	1526.2	1534.3	1539.7	1545.2
12.5°	1507.2	1509.9	1523.5	1534.3	1539.7
15°	1485.5	1491.0	1509.9	1520.8	1528.9
17.5°	1461.1	1469.3	1491.0	1507.2	1515.4
20°	1431.3	1442.2	1469.3	1491.0	1501.8
22.5°	1398.8	1409.6	1442.2	1469.3	1482.8
25°	1360.8	1377.1	1412.3	1444.9	1458.4
27.5°	1320.2	1339.1	1379.8	1417.8	1431.3
30°	1276.8	1298.5	1344.6	1385.2	1401.5
32.5°	1236.1	1257.8	1309.3	1352.7	1369.0
35°	1187.3	1214.4	1268.7	1317.5	1336.4
37.5°	1141.3	1168.4	1225.3	1276.8	1295.8
40°	1092.5	1119.6	1179.2	1236.1	1255.1
42.5°	1046.4	1073.5	1133.1	1192.8	1214.4
45°	994.9	1024.7	1084.3	1144.0	1168.4
47.5°	943.4	973.2	1035.5	1097.9	1122.3
50°	891.9	924.4	984.0	1046.4	1073.5
52.5°	840.4	872.9	932.5	997.6	1024.7
55°	788.8	824.1	878.3	943.4	975.9
57.5°	737.3	772.6	826.8	894.6	927.1
60°	677.7	718.4	772.6	843.1	881.0
62.5°	626.2	661.4	715.7	788.8	834.9
65°	574.7	607.2	656.0	737.3	788.8
67.5°	520.5	555.7	601.8	677.7	748.2
70°	469.0	498.8	544.9	623.5	702.1
72.5°	414.8	444.6	487.9	569.3	656.0
75°	360.5	390.4	428.3	512.3	612.6
77.5°	311.7	336.1	371.4	452.7	561.1
80°	257.5	281.9	314.5	387.6	493.4
82.5°	208.7	230.4	257.5	322.6	406.6
85°	165.4	187.0	208.7	260.2	317.2
87.5°	132.8	149.1	170.8	208.7	246.7
90°	105.7	124.7	143.7	170.8	195.2
92.5°	97.6	113.9	130.1	151.8	168.1
95°	92.2	105.7	122.0	138.3	149.1
97.5°	86.7	100.3	113.9	130.1	138.3
100°	84.0	94.9	108.4	122.0	127.4
102.5°	81.3	89.5	103.0	113.9	122.0
105°	78.6	86.7	97.6	108.4	113.9
107.5°	73.2	81.3	92.2	103.0	108.4
110°	70.5	75.9	86.7	94.9	103.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	67.8	73.2	81.3	89.5	94.9
115°	62.3	67.8	75.9	81.3	86.7
117.5°	59.6	62.3	70.5	73.2	78.6
120°	54.2	56.9	65.1	67.8	70.5
122.5°	48.8	51.5	59.6	59.6	65.1
125°	46.1	46.1	54.2	54.2	56.9
127.5°	43.4	43.4	48.8	48.8	51.5
130°	38.0	38.0	43.4	43.4	43.4
132.5°	35.2	32.5	38.0	38.0	40.7
135°	32.5	29.8	32.5	32.5	35.2
137.5°	27.1	27.1	29.8	27.1	29.8
140°	24.4	21.7	24.4	24.4	27.1
142.5°	21.7	19.0	21.7	19.0	21.7
145°	19.0	16.3	16.3	16.3	19.0
147.5°	16.3	13.6	13.6	13.6	16.3
150°	13.6	10.8	10.8	10.8	13.6
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)