

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: P384637

Luminaire Tested: **22ID-45-L850-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384637  
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-45-L850-CFD3  
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

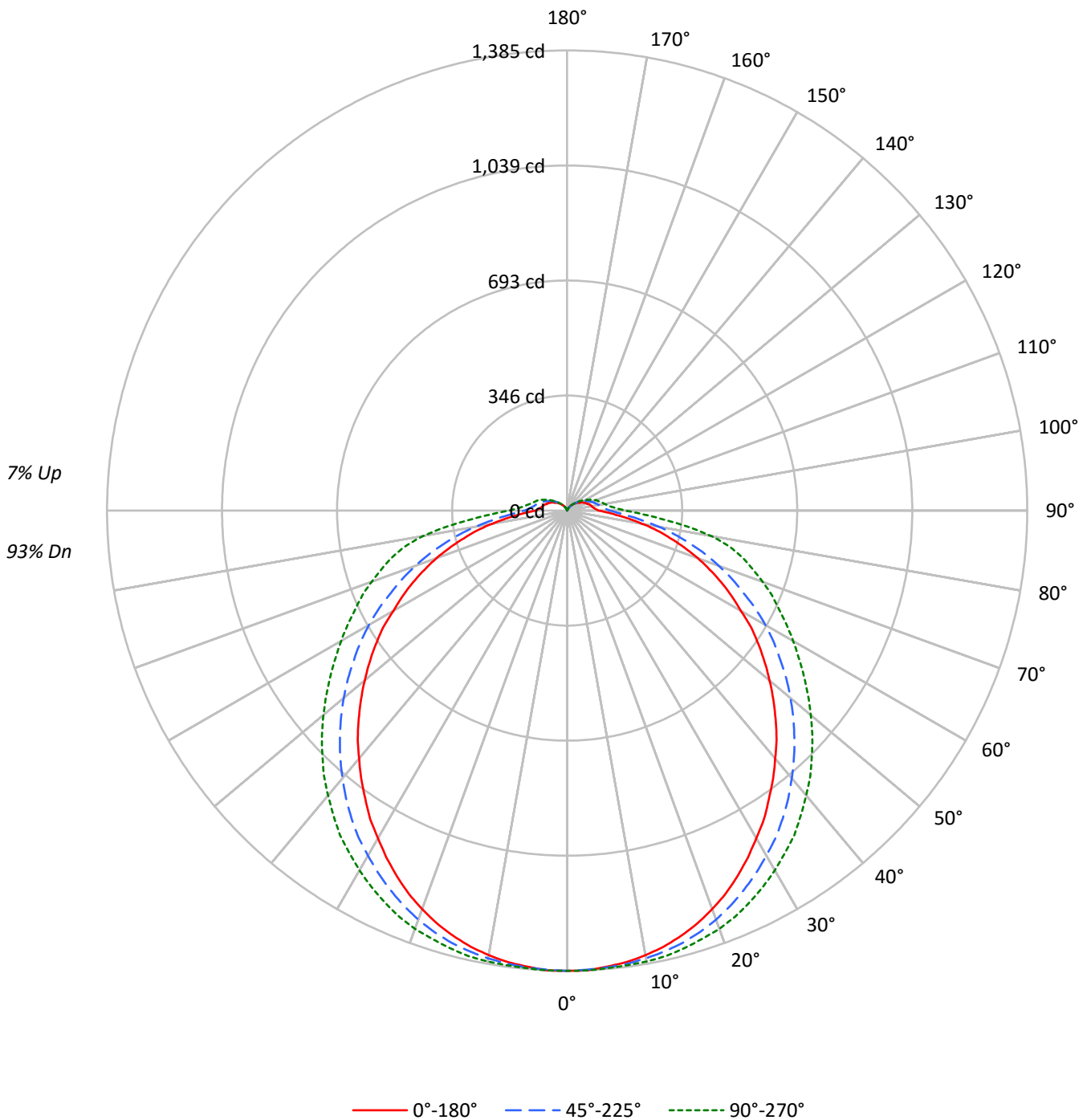
Lumens per Lamp: N/A  
Luminaire Lumens: 4847.7 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P384637  
CATALOG NUMBER: 22ID-45-L850-CFD3

### 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°	3728	3728	3728
5°	3682	3672	3695
10°	3633	3626	3684
15°	3571	3582	3675
20°	3496	3526	3669
25°	3405	3455	3649
30°	3300	3381	3622
35°	3199	3307	3600
40°	3098	3217	3559
45°	3002	3128	3525
50°	2898	3035	3488
55°	2801	2934	3465
60°	2674	2839	3476
65°	2573	2701	3533
70°	2449	2573	3667
75°	2279	2393	3874
80°	2083	2170	3990
85°	1875	1903	3596



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	2.7
10°-20°	379.6	7.8
20°-30°	579.9	12.0
30°-40°	705.9	14.6
40°-50°	746.1	15.4
50°-60°	704.3	14.5
60°-70°	592.5	12.2
70°-80°	427.2	8.8
80°-90°	225.3	4.6
90°-100°	120.6	2.5
100°-110°	91.6	1.9
110°-120°	66.4	1.4
120°-130°	41.7	0.9
130°-140°	22.5	0.5
140°-150°	9.8	0.2
150°-160°	2.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1090.9	22.5
0°-40°	1796.8	37.1
0°-60°	3247.2	67.0
0°-90°	4492.3	92.7
90°-120°	278.6	5.7
90°-150°	352.7	7.3
90°-180°	355.0	7.3
0°-180°	4847.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1378	1378	1380	1380	1383	131
15°	1325	1330	1347	1356	1364	374
25°	1214	1228	1260	1289	1301	559
35°	1059	1083	1131	1175	1192	663
45°	887	914	967	1020	1042	685
55°	704	735	783	841	870	629
65°	512	542	585	658	704	507
75°	322	348	382	457	546	341
85°	148	167	186	232	283	138
90°	94	111	128	152	174	54
95°	82	94	109	123	133	66
105°	70	77	87	97	102	73
115°	56	60	68	72	77	56
125°	41	41	48	48	51	37
135°	29	27	29	29	31	22
145°	17	14	14	14	17	11
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



TEST NUMBER: P384637

CATALOG NUMBER: 22ID-45-L850-CFD3

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1385.3	1385.3	1385.3	1385.3	1385.3
2.5°	1385.3	1382.9	1382.9	1382.9	1385.3
5°	1378.0	1378.0	1380.5	1380.5	1382.9
7.5°	1370.8	1370.8	1375.6	1378.0	1380.5
10°	1358.7	1361.1	1368.4	1373.2	1378.0
12.5°	1344.2	1346.6	1358.7	1368.4	1373.2
15°	1324.9	1329.7	1346.6	1356.3	1363.5
17.5°	1303.1	1310.4	1329.7	1344.2	1351.5
20°	1276.5	1286.2	1310.4	1329.7	1339.4
22.5°	1247.5	1257.2	1286.2	1310.4	1322.4
25°	1213.6	1228.2	1259.6	1288.6	1300.7
27.5°	1177.4	1194.3	1230.6	1264.4	1276.5
30°	1138.7	1158.0	1199.1	1235.4	1249.9
32.5°	1102.4	1121.8	1167.7	1206.4	1220.9
35°	1058.9	1083.1	1131.4	1175.0	1191.9
37.5°	1017.8	1042.0	1092.8	1138.7	1155.6
40°	974.3	998.5	1051.7	1102.4	1119.4
42.5°	933.2	957.4	1010.6	1063.8	1083.1
45°	887.3	913.9	967.1	1020.2	1042.0
47.5°	841.3	867.9	923.5	979.1	1000.9
50°	795.4	824.4	877.6	933.2	957.4
52.5°	749.5	778.5	831.7	889.7	913.9
55°	703.5	735.0	783.3	841.3	870.3
57.5°	657.6	689.0	737.4	797.8	826.8
60°	604.4	640.7	689.0	751.9	785.7
62.5°	558.5	589.9	638.3	703.5	744.6
65°	512.5	541.5	585.1	657.6	703.5
67.5°	464.2	495.6	536.7	604.4	667.3
70°	418.2	444.8	485.9	556.1	626.2
72.5°	369.9	396.5	435.2	507.7	585.1
75°	321.5	348.1	382.0	456.9	546.4
77.5°	278.0	299.8	331.2	403.7	500.4
80°	229.7	251.4	280.4	345.7	440.0
82.5°	186.2	205.5	229.7	287.7	362.6
85°	147.5	166.8	186.2	232.1	282.9
87.5°	118.5	133.0	152.3	186.2	220.0
90°	94.3	111.2	128.1	152.3	174.1
92.5°	87.0	101.5	116.0	135.4	149.9
95°	82.2	94.3	108.8	123.3	133.0
97.5°	77.4	89.5	101.5	116.0	123.3
100°	74.9	84.6	96.7	108.8	113.6
102.5°	72.5	79.8	91.9	101.5	108.8
105°	70.1	77.4	87.0	96.7	101.5
107.5°	65.3	72.5	82.2	91.9	96.7
110°	62.9	67.7	77.4	84.6	91.9



TEST NUMBER: P384637

CATALOG NUMBER: 22ID-45-L850-CFD3

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	60.4	65.3	72.5	79.8	84.6
115°	55.6	60.4	67.7	72.5	77.4
117.5°	53.2	55.6	62.9	65.3	70.1
120°	48.4	50.8	58.0	60.4	62.9
122.5°	43.5	45.9	53.2	53.2	58.0
125°	41.1	41.1	48.4	48.4	50.8
127.5°	38.7	38.7	43.5	43.5	45.9
130°	33.8	33.8	38.7	38.7	38.7
132.5°	31.4	29.0	33.8	33.8	36.3
135°	29.0	26.6	29.0	29.0	31.4
137.5°	24.2	24.2	26.6	24.2	26.6
140°	21.8	19.3	21.8	21.8	24.2
142.5°	19.3	16.9	19.3	16.9	19.3
145°	16.9	14.5	14.5	14.5	16.9
147.5°	14.5	12.1	12.1	12.1	14.5
150°	12.1	9.7	9.7	9.7	12.1
152.5°	9.7	7.3	4.8	7.3	9.7
155°	7.3	7.3	2.4	4.8	7.3
157.5°	4.8	4.8	0.0	2.4	4.8
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)