

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: P384077

Luminaire Tested: **14ID-45-L850-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384077  
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: 14ID-45-L850-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

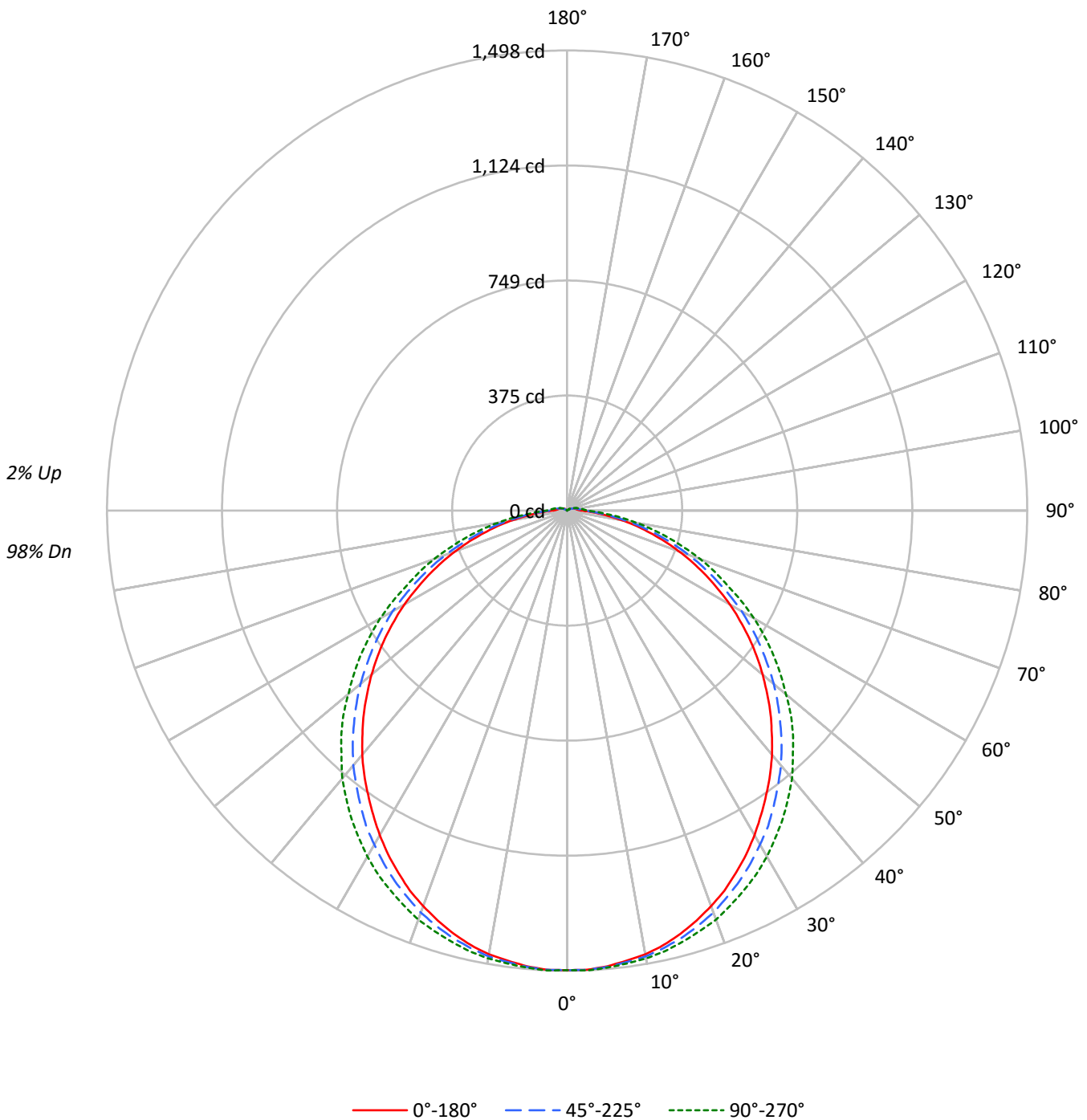
Lumens per Lamp: N/A  
Luminaire Lumens: 4430.6 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 38.5  
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°	4026	4026	4026
5°	4015	4003	4006
10°	3993	3975	3986
15°	3951	3934	3960
20°	3894	3884	3940
25°	3825	3817	3897
30°	3745	3742	3856
35°	3658	3663	3800
40°	3583	3582	3739
45°	3492	3479	3654
50°	3395	3380	3541
55°	3295	3261	3438
60°	3185	3131	3307
65°	3040	2940	3106
70°	2875	2749	2948
75°	2687	2492	2708
80°	2491	2185	2411
85°	2409	1883	2061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	3.2
10°-20°	406.1	9.2
20°-30°	613.2	13.8
30°-40°	734.7	16.6
40°-50°	759.6	17.1
50°-60°	687.9	15.5
60°-70°	532.3	12.0
70°-80°	327.0	7.4
80°-90°	129.9	2.9
90°-100°	47.4	1.1
100°-110°	29.1	0.7
110°-120°	15.0	0.3
120°-130°	6.4	0.1
130°-140°	0.4	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°	1161.0	26.2
0°-40°	1895.7	42.8
0°-60°	3343.1	75.5
0°-90°	4332.3	97.8
90°-120°	91.5	2.1
90°-150°	98.3	2.2
90°-180°	98.0	2.2
0°-180°	4430.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1489	1489	1492	1492	1494	141
15°	1426	1429	1440	1449	1453	402
25°	1301	1310	1330	1352	1363	599
35°	1130	1143	1172	1204	1224	707
45°	937	948	982	1022	1040	722
55°	723	739	768	802	820	646
65°	499	510	535	562	575	493
75°	278	292	306	326	341	297
85°	97	103	112	124	130	96
90°	45	52	56	63	67	26
95°	34	38	43	47	52	27
105°	25	25	27	29	31	26
115°	16	14	14	16	18	16
125°	9	7	4	7	9	8
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°	1496.0	1496.0	1496.0	1496.0	1496.0
2.5°	1496.0	1493.7	1496.0	1496.0	1498.2
5°	1489.2	1489.2	1491.5	1491.5	1493.7
7.5°	1478.0	1478.0	1482.5	1484.7	1487.0
10°	1466.8	1466.8	1473.5	1475.8	1480.3
12.5°	1448.8	1451.1	1457.8	1464.5	1469.0
15°	1426.3	1428.6	1439.8	1448.8	1453.3
17.5°	1399.4	1403.9	1417.4	1430.8	1435.3
20°	1370.2	1376.9	1392.6	1408.4	1417.4
22.5°	1338.7	1343.2	1361.2	1381.4	1390.4
25°	1300.6	1309.5	1329.8	1352.2	1363.4
27.5°	1262.4	1271.4	1293.8	1320.8	1334.2
30°	1219.7	1228.7	1255.6	1284.8	1300.6
32.5°	1174.8	1186.0	1217.4	1246.6	1262.4
35°	1129.8	1143.3	1172.5	1204.0	1224.2
37.5°	1084.9	1096.1	1127.6	1161.3	1181.5
40°	1037.7	1049.0	1082.7	1116.4	1138.8
42.5°	986.1	999.6	1033.3	1069.2	1087.2
45°	936.7	947.9	981.6	1022.0	1040.0
47.5°	882.8	898.5	929.9	968.1	988.3
50°	831.1	844.6	878.3	914.2	929.9
52.5°	777.2	790.7	822.1	858.1	876.0
55°	723.3	739.0	768.2	801.9	819.9
57.5°	667.1	682.8	712.0	741.2	761.5
60°	613.2	628.9	655.9	685.1	703.1
62.5°	552.6	566.0	595.2	626.7	640.2
65°	498.7	509.9	534.6	561.6	575.0
67.5°	442.5	456.0	478.4	503.2	518.9
70°	386.3	402.1	420.0	442.5	460.5
72.5°	332.4	345.9	361.6	384.1	399.8
75°	278.5	292.0	305.5	325.7	341.4
77.5°	231.4	238.1	251.6	269.5	285.3
80°	179.7	188.7	199.9	217.9	229.1
82.5°	134.8	143.8	152.7	166.2	177.5
85°	96.6	103.3	112.3	123.5	130.3
87.5°	65.1	71.9	78.6	87.6	94.3
90°	44.9	51.7	56.2	62.9	67.4
92.5°	38.2	42.7	47.2	51.7	56.2
95°	33.7	38.2	42.7	47.2	51.7
97.5°	31.4	33.7	38.2	42.7	44.9
100°	29.2	31.4	33.7	38.2	40.4
102.5°	27.0	27.0	31.4	33.7	35.9
105°	24.7	24.7	27.0	29.2	31.4
107.5°	22.5	22.5	24.7	24.7	29.2
110°	20.2	18.0	20.2	20.2	24.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	18.0	15.7	18.0	18.0	20.2
115°	15.7	13.5	13.5	15.7	18.0
117.5°	13.5	11.2	11.2	11.2	15.7
120°	13.5	11.2	9.0	9.0	13.5
122.5°	11.2	9.0	6.7	9.0	11.2
125°	9.0	6.7	4.5	6.7	9.0
127.5°	6.7	6.7	2.2	4.5	6.7
130°	6.7	4.5	2.2	4.5	4.5
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)