

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: P384065

Luminaire Tested: **14ID-30-L850-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384065  
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-30-L850-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

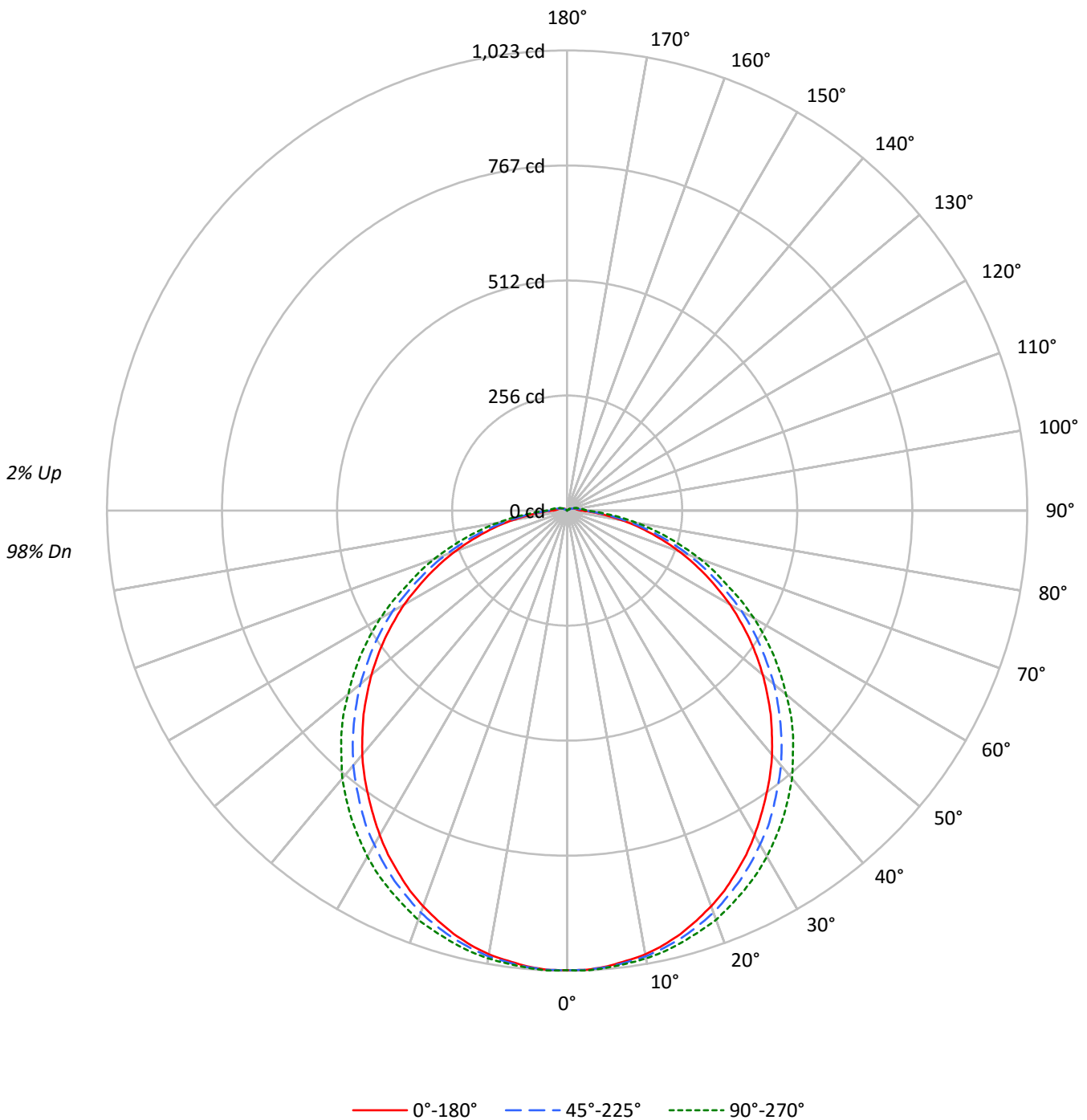
Lumens per Lamp: N/A  
Luminaire Lumens: 3026.3 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 24.9  
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°	2750	2750	2750
5°	2743	2734	2736
10°	2728	2715	2723
15°	2699	2687	2705
20°	2660	2653	2691
25°	2612	2607	2662
30°	2558	2556	2634
35°	2499	2502	2596
40°	2447	2447	2554
45°	2385	2377	2496
50°	2319	2309	2419
55°	2251	2227	2348
60°	2176	2138	2259
65°	2076	2008	2122
70°	1964	1877	2014
75°	1835	1702	1850
80°	1701	1492	1647
85°	1646	1286	1408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.8	3.2
10°-20°	277.4	9.2
20°-30°	418.8	13.8
30°-40°	501.8	16.6
40°-50°	518.8	17.1
50°-60°	469.8	15.5
60°-70°	363.6	12.0
70°-80°	223.3	7.4
80°-90°	88.7	2.9
90°-100°	32.4	1.1
100°-110°	19.9	0.7
110°-120°	10.2	0.3
120°-130°	4.4	0.1
130°-140°	0.3	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°	793.0	26.2
0°-40°	1294.8	42.8
0°-60°	2283.5	75.5
0°-90°	2959.2	97.8
90°-120°	62.5	2.1
90°-150°	67.2	2.2
90°-180°	67.0	2.2
0°-180°	3026.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1017	1017	1019	1019	1020	97
15°	974	976	984	990	993	275
25°	888	894	908	924	931	409
35°	772	781	801	822	836	483
45°	640	648	670	698	710	493
55°	494	505	525	548	560	441
65°	341	348	365	384	393	337
75°	190	200	209	222	233	203
85°	66	71	77	84	89	66
90°	31	35	38	43	46	18
95°	23	26	29	32	35	18
105°	17	17	18	20	22	18
115°	11	9	9	11	12	11
125°	6	5	3	5	6	6
135°	0	0	0	0	0	0
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°	1021.8	1021.8	1021.8	1021.8	1021.8
2.5°	1021.8	1020.3	1021.8	1021.8	1023.4
5°	1017.2	1017.2	1018.7	1018.7	1020.3
7.5°	1009.5	1009.5	1012.6	1014.1	1015.7
10°	1001.9	1001.9	1006.5	1008.0	1011.1
12.5°	989.6	991.1	995.7	1000.3	1003.4
15°	974.3	975.8	983.5	989.6	992.7
17.5°	955.8	958.9	968.1	977.3	980.4
20°	935.9	940.5	951.2	962.0	968.1
22.5°	914.4	917.5	929.8	943.6	949.7
25°	888.3	894.5	908.3	923.6	931.3
27.5°	862.3	868.4	883.7	902.1	911.4
30°	833.1	839.2	857.7	877.6	888.3
32.5°	802.4	810.1	831.6	851.5	862.3
35°	771.7	780.9	800.9	822.4	836.2
37.5°	741.0	748.7	770.2	793.2	807.0
40°	708.8	716.5	739.5	762.5	777.9
42.5°	673.5	682.7	705.8	730.3	742.6
45°	639.8	647.5	670.5	698.1	710.4
47.5°	603.0	613.7	635.2	661.3	675.1
50°	567.7	576.9	599.9	624.4	635.2
52.5°	530.9	540.1	561.5	586.1	598.4
55°	494.0	504.8	524.7	547.7	560.0
57.5°	455.7	466.4	486.4	506.3	520.1
60°	418.9	429.6	448.0	467.9	480.2
62.5°	377.4	386.6	406.6	428.1	437.3
65°	340.6	348.3	365.2	383.6	392.8
67.5°	302.2	311.5	326.8	343.7	354.4
70°	263.9	274.6	286.9	302.2	314.5
72.5°	227.1	236.3	247.0	262.4	273.1
75°	190.2	199.5	208.7	222.5	233.2
77.5°	158.0	162.6	171.8	184.1	194.9
80°	122.7	128.9	136.5	148.8	156.5
82.5°	92.1	98.2	104.3	113.5	121.2
85°	66.0	70.6	76.7	84.4	89.0
87.5°	44.5	49.1	53.7	59.8	64.4
90°	30.7	35.3	38.4	43.0	46.0
92.5°	26.1	29.2	32.2	35.3	38.4
95°	23.0	26.1	29.2	32.2	35.3
97.5°	21.5	23.0	26.1	29.2	30.7
100°	19.9	21.5	23.0	26.1	27.6
102.5°	18.4	18.4	21.5	23.0	24.5
105°	16.9	16.9	18.4	19.9	21.5
107.5°	15.3	15.3	16.9	16.9	19.9
110°	13.8	12.3	13.8	13.8	16.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.3	10.7	12.3	12.3	13.8
115°	10.7	9.2	9.2	10.7	12.3
117.5°	9.2	7.7	7.7	7.7	10.7
120°	9.2	7.7	6.1	6.1	9.2
122.5°	7.7	6.1	4.6	6.1	7.7
125°	6.1	4.6	3.1	4.6	6.1
127.5°	4.6	4.6	1.5	3.1	4.6
130°	4.6	3.1	1.5	3.1	3.1
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)