

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: P384056

Luminaire Tested: **14ID-20-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384056  
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-20-L840-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

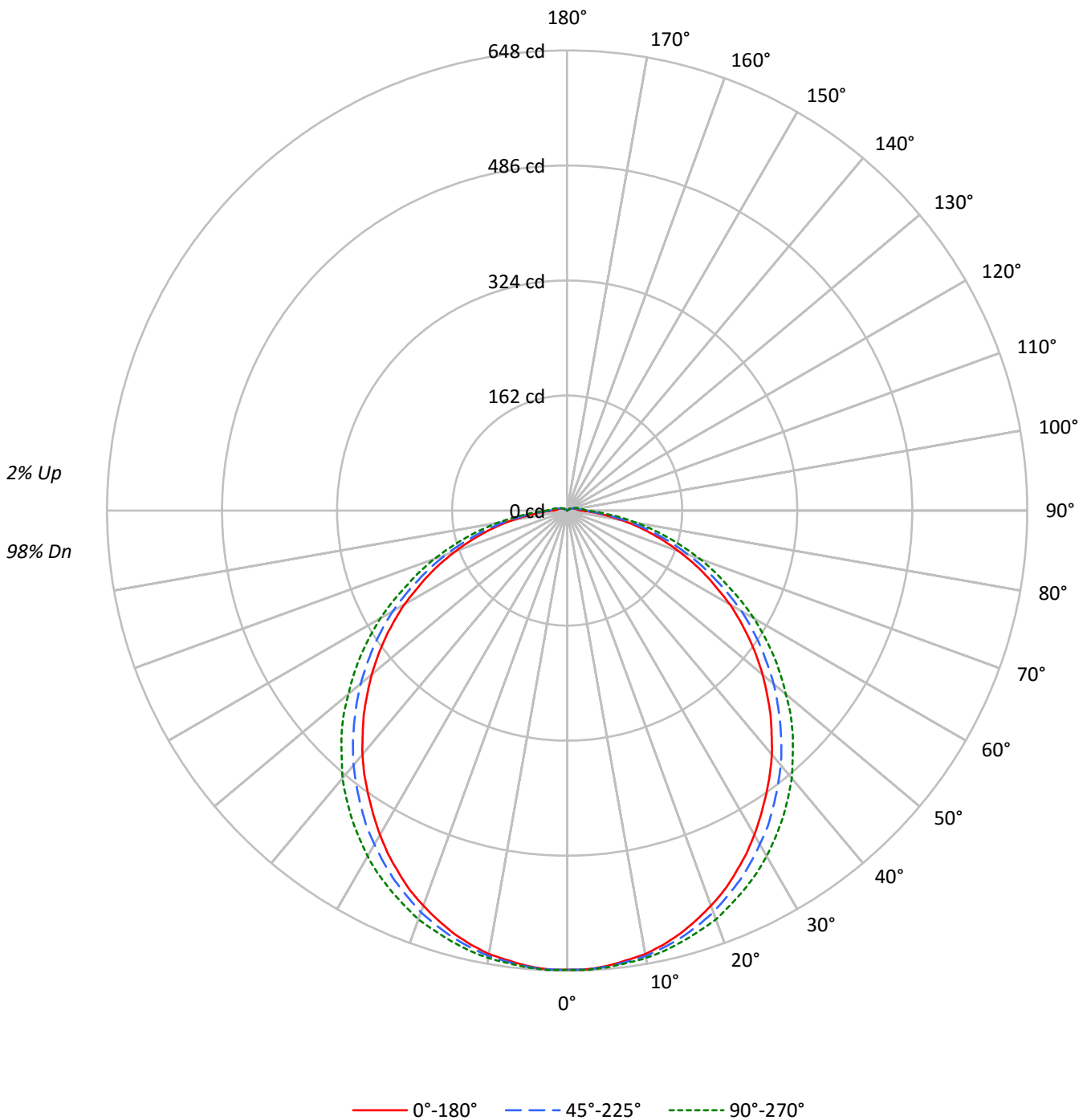
Lumens per Lamp: N/A  
Luminaire Lumens: 1915.0 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 16.5  
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°	1740	1740	1740
5°	1736	1730	1731
10°	1726	1718	1723
15°	1708	1700	1712
20°	1683	1679	1703
25°	1653	1650	1684
30°	1619	1618	1666
35°	1581	1583	1642
40°	1548	1548	1616
45°	1509	1504	1579
50°	1467	1461	1531
55°	1424	1409	1486
60°	1377	1353	1429
65°	1314	1271	1342
70°	1243	1188	1274
75°	1162	1077	1171
80°	1077	945	1042
85°	1040	813	890



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.2	3.2
10°-20°	175.5	9.2
20°-30°	265.0	13.8
30°-40°	317.5	16.6
40°-50°	328.3	17.1
50°-60°	297.3	15.5
60°-70°	230.1	12.0
70°-80°	141.3	7.4
80°-90°	56.2	2.9
90°-100°	20.5	1.1
100°-110°	12.6	0.7
110°-120°	6.5	0.3
120°-130°	2.8	0.1
130°-140°	0.2	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°	501.8	26.2
0°-40°	819.4	42.8
0°-60°	1444.9	75.5
0°-90°	1872.5	97.8
90°-120°	39.6	2.1
90°-150°	42.5	2.2
90°-180°	43.0	2.2
0°-180°	1915.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	644	644	645	645	646	61
15°	616	618	622	626	628	174
25°	562	566	575	584	589	259
35°	488	494	507	520	529	306
45°	405	410	424	442	450	312
55°	313	319	332	347	354	279
65°	216	220	231	243	248	213
75°	120	126	132	141	148	128
85°	42	45	48	53	56	42
90°	19	22	24	27	29	11
95°	15	16	18	20	22	12
105°	11	11	12	13	14	11
115°	7	6	6	7	8	7
125°	4	3	2	3	4	4
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°	646.6	646.6	646.6	646.6	646.6
2.5°	646.6	645.6	646.6	646.6	647.6
5°	643.7	643.7	644.7	644.7	645.6
7.5°	638.8	638.8	640.8	641.7	642.7
10°	634.0	634.0	636.9	637.9	639.8
12.5°	626.2	627.2	630.1	633.0	634.9
15°	616.5	617.5	622.3	626.2	628.1
17.5°	604.8	606.8	612.6	618.4	620.4
20°	592.2	595.1	601.9	608.7	612.6
22.5°	578.6	580.6	588.3	597.1	601.0
25°	562.1	566.0	574.7	584.5	589.3
27.5°	545.6	549.5	559.2	570.9	576.7
30°	527.2	531.1	542.7	555.3	562.1
32.5°	507.8	512.6	526.2	538.8	545.6
35°	488.3	494.2	506.8	520.4	529.1
37.5°	468.9	473.8	487.4	501.9	510.7
40°	448.5	453.4	468.0	482.5	492.2
42.5°	426.2	432.0	446.6	462.1	469.9
45°	404.8	409.7	424.3	441.7	449.5
47.5°	381.5	388.3	401.9	418.4	427.2
50°	359.2	365.0	379.6	395.1	401.9
52.5°	335.9	341.7	355.3	370.9	378.6
55°	312.6	319.4	332.0	346.6	354.4
57.5°	288.3	295.1	307.8	320.4	329.1
60°	265.0	271.8	283.5	296.1	303.9
62.5°	238.8	244.7	257.3	270.9	276.7
65°	215.5	220.4	231.1	242.7	248.5
67.5°	191.3	197.1	206.8	217.5	224.3
70°	167.0	173.8	181.6	191.3	199.0
72.5°	143.7	149.5	156.3	166.0	172.8
75°	120.4	126.2	132.0	140.8	147.6
77.5°	100.0	102.9	108.7	116.5	123.3
80°	77.7	81.6	86.4	94.2	99.0
82.5°	58.3	62.1	66.0	71.8	76.7
85°	41.7	44.7	48.5	53.4	56.3
87.5°	28.2	31.1	34.0	37.9	40.8
90°	19.4	22.3	24.3	27.2	29.1
92.5°	16.5	18.4	20.4	22.3	24.3
95°	14.6	16.5	18.4	20.4	22.3
97.5°	13.6	14.6	16.5	18.4	19.4
100°	12.6	13.6	14.6	16.5	17.5
102.5°	11.7	11.7	13.6	14.6	15.5
105°	10.7	10.7	11.7	12.6	13.6
107.5°	9.7	9.7	10.7	10.7	12.6
110°	8.7	7.8	8.7	8.7	10.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.8	6.8	7.8	7.8	8.7
115°	6.8	5.8	5.8	6.8	7.8
117.5°	5.8	4.9	4.9	4.9	6.8
120°	5.8	4.9	3.9	3.9	5.8
122.5°	4.9	3.9	2.9	3.9	4.9
125°	3.9	2.9	1.9	2.9	3.9
127.5°	2.9	2.9	1.0	1.9	2.9
130°	2.9	1.9	1.0	1.9	1.9
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)