

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: P384222

Luminaire Tested: **14ID-20-L830-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-20-L830-CFD2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

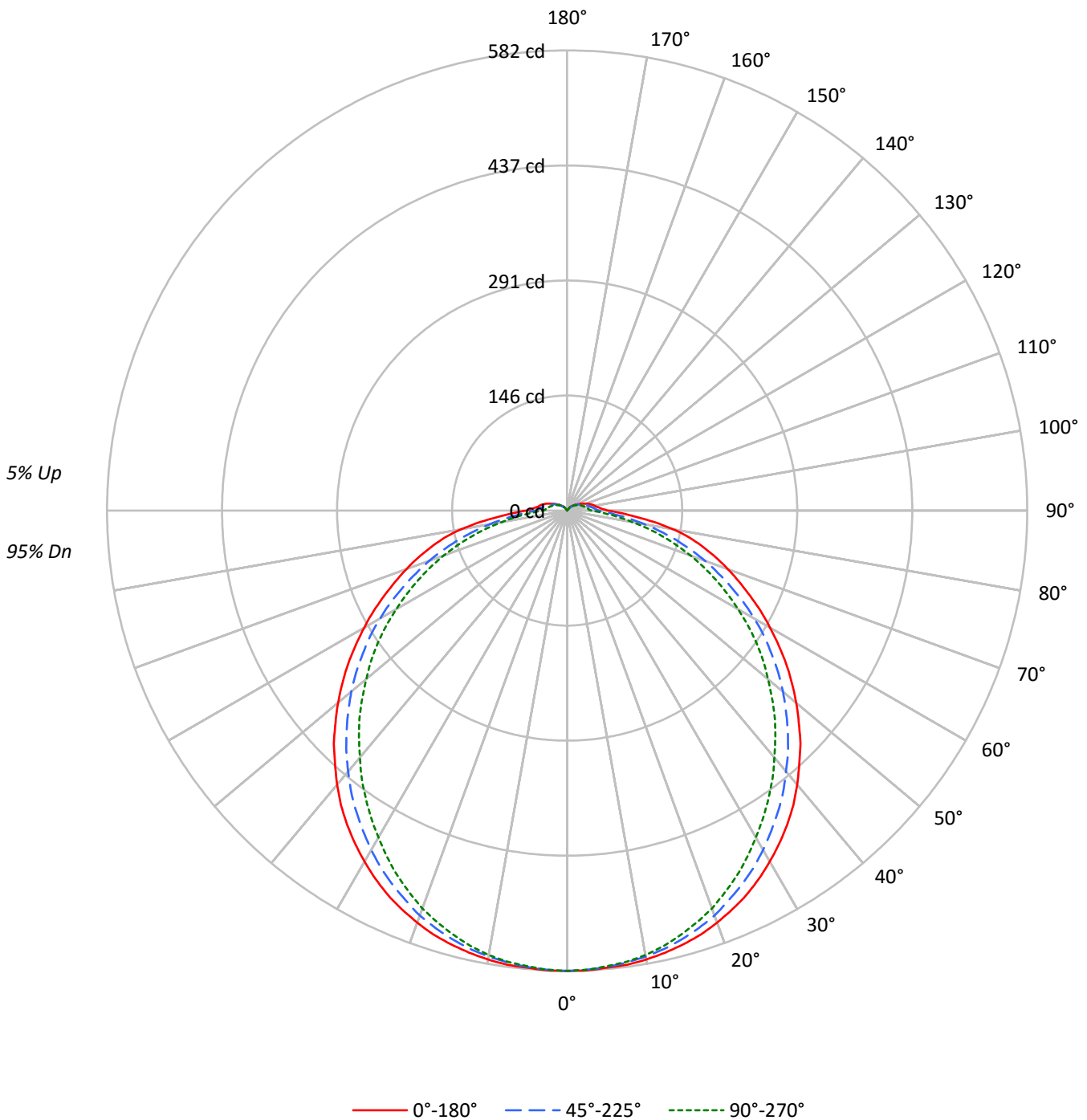
Lumens per Lamp: N/A  
Luminaire Lumens: 1888.4 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 16.4  
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1567	1567	1567
5°	1562	1545	1540
10°	1564	1525	1515
15°	1565	1504	1481
20°	1564	1482	1446
25°	1563	1451	1402
30°	1556	1419	1353
35°	1548	1385	1306
40°	1536	1347	1257
45°	1525	1309	1212
50°	1509	1269	1158
55°	1498	1223	1108
60°	1488	1173	1043
65°	1493	1107	974
70°	1527	1041	895
75°	1603	953	794
80°	1708	837	668
85°	1794	724	547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	2.9
10°-20°	158.5	8.4
20°-30°	240.7	12.7
30°-40°	290.7	15.4
40°-50°	304.3	16.1
50°-60°	282.3	15.0
60°-70°	228.7	12.1
70°-80°	154.3	8.2
80°-90°	74.6	3.9
90°-100°	37.5	2.0
100°-110°	27.3	1.4
110°-120°	18.2	1.0
120°-130°	10.6	0.6
130°-140°	5.3	0.3
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	454.2	24.1
0°-40°	744.9	39.4
0°-60°	1331.5	70.5
0°-90°	1789.1	94.7
90°-120°	83.0	4.4
90°-150°	99.3	5.3
90°-180°	99.0	5.2
0°-180°	1888.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	580	579	579	578	578	55
15°	568	565	561	558	556	160
25°	536	532	522	513	509	247
35°	485	478	465	451	444	303
45°	417	410	394	378	372	322
55°	338	331	315	300	292	302
65°	255	246	229	216	208	253
75°	178	160	142	132	124	188
85°	86	74	63	57	52	81
90°	52	47	40	36	30	29
95°	41	38	34	30	27	32
105°	30	29	26	23	21	33
115°	21	19	19	16	16	21
125°	13	11	12	10	11	12
135°	8	7	7	7	8	6
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°	582.2	582.2	582.2	582.2	582.2
2.5°	582.2	581.3	581.3	581.3	581.3
5°	580.3	579.4	579.4	578.4	578.4
7.5°	579.4	577.5	576.5	575.6	575.6
10°	576.5	574.6	572.7	570.8	570.8
12.5°	572.7	570.8	567.9	564.1	564.1
15°	567.9	565.1	561.3	557.5	555.5
17.5°	562.2	559.4	553.6	547.9	546.0
20°	554.6	550.8	545.1	537.4	535.5
22.5°	546.0	542.2	533.6	526.0	522.2
25°	536.5	531.7	522.2	512.7	508.9
27.5°	525.1	520.3	509.8	498.4	493.6
30°	512.7	506.9	495.5	483.1	477.4
32.5°	499.3	492.7	480.3	466.9	461.2
35°	485.0	478.4	465.0	450.7	444.1
37.5°	469.8	463.1	448.8	433.6	426.9
40°	452.6	446.0	430.7	415.5	407.8
42.5°	434.5	428.8	413.6	397.4	389.7
45°	417.4	409.8	394.5	378.3	371.6
47.5°	397.4	391.6	375.4	359.2	351.6
50°	378.3	371.6	356.4	340.2	331.6
52.5°	358.3	352.6	336.4	320.2	312.6
55°	338.3	330.7	315.4	300.2	292.5
57.5°	317.3	310.6	295.4	281.1	271.6
60°	296.4	289.7	273.5	260.1	249.7
62.5°	276.3	268.7	251.6	237.3	228.7
65°	255.4	245.9	228.7	216.3	207.7
67.5°	235.4	223.9	206.8	195.3	186.8
70°	216.3	203.0	185.8	174.4	165.8
72.5°	197.3	181.1	162.9	152.5	144.8
75°	178.2	160.1	142.0	131.5	123.9
77.5°	159.1	138.2	120.1	111.5	103.9
80°	136.3	116.3	99.1	91.5	83.9
82.5°	110.5	94.3	80.0	72.4	66.7
85°	85.8	74.3	62.9	57.2	51.5
87.5°	66.7	58.1	49.6	44.8	40.0
90°	51.5	46.7	40.0	36.2	30.5
92.5°	44.8	41.0	36.2	32.4	27.6
95°	41.0	38.1	34.3	30.5	26.7
97.5°	37.2	35.3	31.4	28.6	24.8
100°	35.3	32.4	29.5	26.7	23.8
102.5°	33.4	30.5	27.6	24.8	22.9
105°	30.5	28.6	25.7	22.9	21.0
107.5°	28.6	25.7	23.8	21.0	20.0
110°	25.7	23.8	21.9	20.0	19.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	22.9	21.9	20.0	18.1	17.2
115°	21.0	19.1	19.1	16.2	16.2
117.5°	19.1	17.2	17.2	15.2	15.2
120°	16.2	15.2	15.2	13.3	13.3
122.5°	14.3	13.3	13.3	12.4	12.4
125°	13.3	11.4	12.4	10.5	11.4
127.5°	11.4	10.5	10.5	9.5	10.5
130°	9.5	8.6	8.6	8.6	9.5
132.5°	8.6	7.6	7.6	7.6	8.6
135°	7.6	6.7	6.7	6.7	7.6
137.5°	6.7	5.7	4.8	5.7	6.7
140°	5.7	4.8	3.8	4.8	5.7
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)