

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: P384110

Luminaire Tested: **22ID-20-L830-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384110  
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: 22ID-20-L830-CFD1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

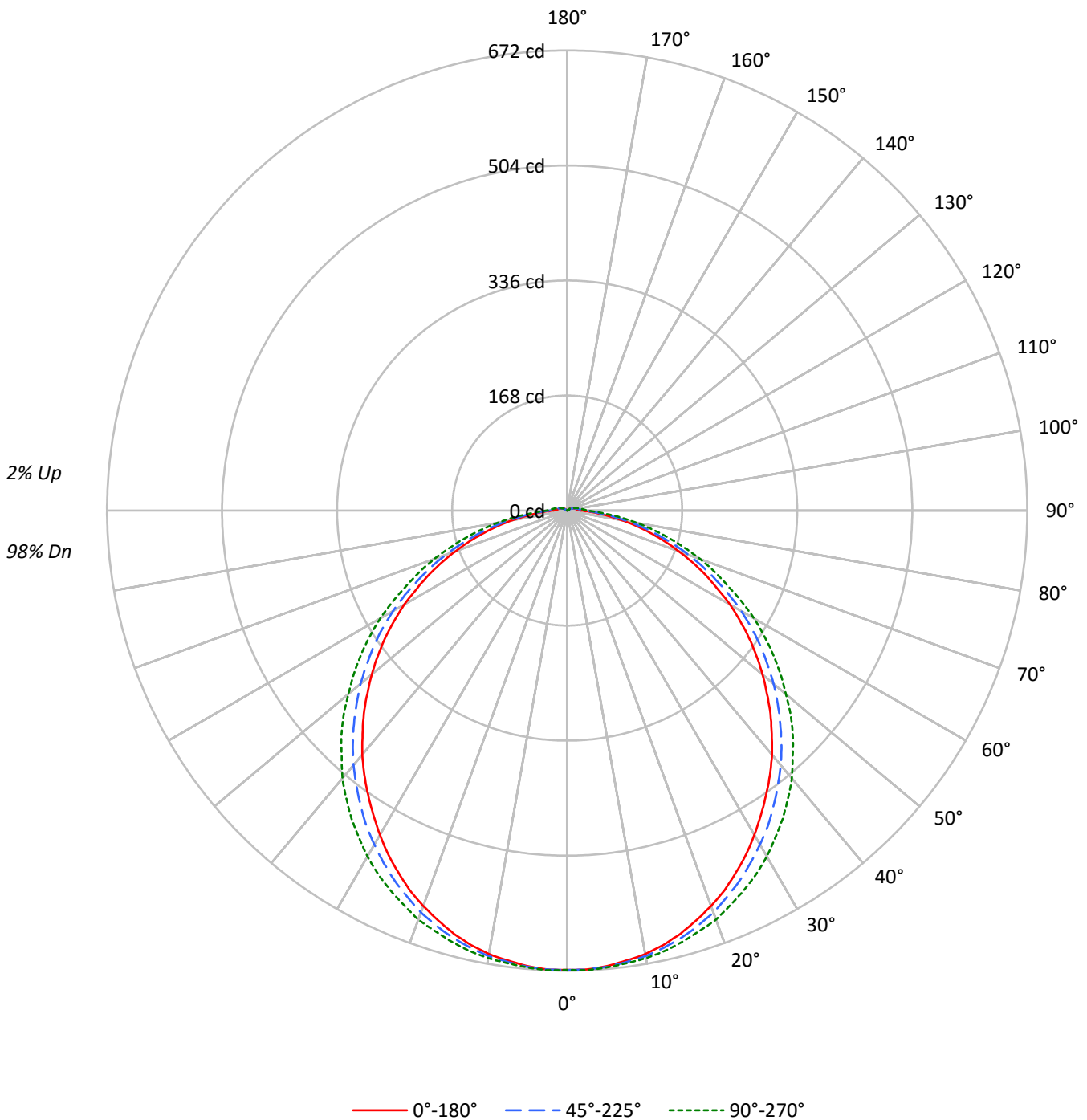
Lumens per Lamp: N/A  
Luminaire Lumens: 1986.8 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 16.3  
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°	1805	1805	1805
5°	1797	1797	1803
10°	1784	1787	1801
15°	1762	1771	1796
20°	1733	1751	1793
25°	1699	1723	1781
30°	1659	1692	1770
35°	1617	1659	1752
40°	1580	1625	1733
45°	1534	1582	1704
50°	1486	1540	1663
55°	1436	1491	1628
60°	1380	1436	1583
65°	1307	1355	1508
70°	1223	1276	1458
75°	1124	1168	1378
80°	1010	1041	1287
85°	906	930	1222



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	3.2
10°-20°	182.1	9.2
20°-30°	275.0	13.8
30°-40°	329.5	16.6
40°-50°	340.6	17.1
50°-60°	308.5	15.5
60°-70°	238.7	12.0
70°-80°	146.6	7.4
80°-90°	58.3	2.9
90°-100°	21.2	1.1
100°-110°	13.1	0.7
110°-120°	6.7	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°	520.6	26.2
0°-40°	850.1	42.8
0°-60°	1499.2	75.5
0°-90°	1942.7	97.8
90°-120°	41.0	2.1
90°-150°	44.1	2.2
90°-180°	44.0	2.2
0°-180°	1986.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	668	668	669	669	670	63
15°	640	641	646	650	652	180
25°	583	587	596	606	611	269
35°	507	513	526	540	549	317
45°	420	425	440	458	466	324
55°	324	331	344	360	368	290
65°	224	229	240	252	258	221
75°	125	131	137	146	153	133
85°	43	46	50	55	58	43
90°	20	23	25	28	30	12
95°	15	17	19	21	23	12
105°	11	11	12	13	14	12
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°	670.8	670.8	670.8	670.8	670.8
2.5°	670.8	669.8	670.8	670.8	671.8
5°	667.8	667.8	668.8	668.8	669.8
7.5°	662.8	662.8	664.8	665.8	666.8
10°	657.7	657.7	660.8	661.8	663.8
12.5°	649.7	650.7	653.7	656.7	658.7
15°	639.6	640.6	645.7	649.7	651.7
17.5°	627.5	629.5	635.6	641.6	643.6
20°	614.4	617.5	624.5	631.6	635.6
22.5°	600.3	602.3	610.4	619.5	623.5
25°	583.2	587.2	596.3	606.4	611.4
27.5°	566.1	570.1	580.2	592.3	598.3
30°	546.9	551.0	563.1	576.2	583.2
32.5°	526.8	531.8	545.9	559.0	566.1
35°	506.7	512.7	525.8	539.9	549.0
37.5°	486.5	491.5	505.6	520.8	529.8
40°	465.4	470.4	485.5	500.6	510.7
42.5°	442.2	448.2	463.3	479.5	487.5
45°	420.0	425.1	440.2	458.3	466.4
47.5°	395.9	402.9	417.0	434.1	443.2
50°	372.7	378.7	393.8	410.0	417.0
52.5°	348.5	354.6	368.7	384.8	392.8
55°	324.3	331.4	344.5	359.6	367.6
57.5°	299.2	306.2	319.3	332.4	341.5
60°	275.0	282.0	294.1	307.2	315.3
62.5°	247.8	253.8	266.9	281.0	287.1
65°	223.6	228.6	239.7	251.8	257.9
67.5°	198.4	204.5	214.5	225.6	232.7
70°	173.2	180.3	188.4	198.4	206.5
72.5°	149.1	155.1	162.2	172.2	179.3
75°	124.9	130.9	137.0	146.1	153.1
77.5°	103.7	106.8	112.8	120.9	127.9
80°	80.6	84.6	89.6	97.7	102.7
82.5°	60.4	64.5	68.5	74.5	79.6
85°	43.3	46.3	50.4	55.4	58.4
87.5°	29.2	32.2	35.3	39.3	42.3
90°	20.1	23.2	25.2	28.2	30.2
92.5°	17.1	19.1	21.2	23.2	25.2
95°	15.1	17.1	19.1	21.2	23.2
97.5°	14.1	15.1	17.1	19.1	20.1
100°	13.1	14.1	15.1	17.1	18.1
102.5°	12.1	12.1	14.1	15.1	16.1
105°	11.1	11.1	12.1	13.1	14.1
107.5°	10.1	10.1	11.1	11.1	13.1
110°	9.1	8.1	9.1	9.1	11.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.1	7.1	8.1	8.1	9.1
115°	7.1	6.0	6.0	7.1	8.1
117.5°	6.0	5.0	5.0	5.0	7.1
120°	6.0	5.0	4.0	4.0	6.0
122.5°	5.0	4.0	3.0	4.0	5.0
125°	4.0	3.0	2.0	3.0	4.0
127.5°	3.0	3.0	1.0	2.0	3.0
130°	3.0	2.0	1.0	2.0	2.0
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)