

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: P384158

Luminaire Tested: **22ID-80-L830-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384158  
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-80-L830-CFD1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

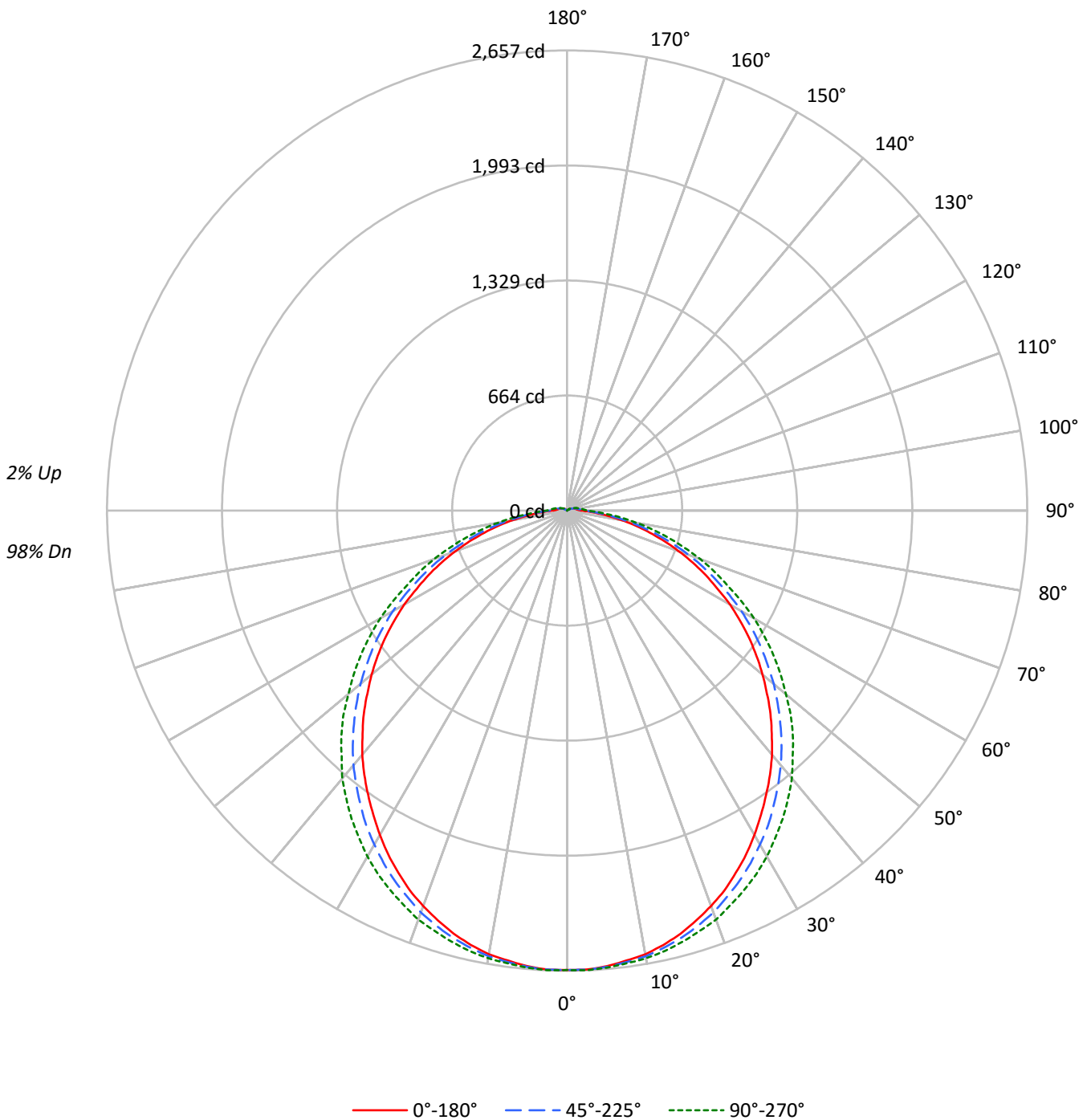
Lumens per Lamp: N/A  
Luminaire Lumens: 7856.4 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 70.8  
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°	7138	7138	7138
5°	7107	7107	7129
10°	7055	7066	7120
15°	6968	7002	7100
20°	6854	6923	7090
25°	6717	6814	7042
30°	6563	6691	6998
35°	6395	6559	6929
40°	6246	6426	6854
45°	6068	6256	6737
50°	5878	6092	6577
55°	5679	5895	6438
60°	5459	5680	6258
65°	5168	5359	5960
70°	4837	5044	5764
75°	4444	4617	5448
80°	3994	4118	5093
85°	3583	3676	4832



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.2	3.2
10°-20°	720.2	9.2
20°-30°	1087.3	13.8
30°-40°	1302.8	16.6
40°-50°	1346.9	17.1
50°-60°	1219.7	15.5
60°-70°	943.8	12.0
70°-80°	579.8	7.4
80°-90°	230.4	2.9
90°-100°	84.0	1.1
100°-110°	51.6	0.7
110°-120°	26.6	0.3
120°-130°	11.3	0.1
130°-140°	0.8	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°	2058.7	26.2
0°-40°	3361.4	42.8
0°-60°	5928.1	75.5
0°-90°	7682.1	97.8
90°-120°	162.2	2.1
90°-150°	174.3	2.2
90°-180°	174.0	2.2
0°-180°	7856.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2653	2653	2653	2653	2653	
5°	2641	2641	2645	2645	2649	251
15°	2529	2533	2553	2569	2577	713
25°	2306	2322	2358	2398	2418	1063
35°	2004	2027	2079	2135	2171	1254
45°	1661	1681	1741	1812	1844	1280
55°	1282	1310	1362	1422	1454	1146
65°	884	904	948	996	1020	875
75°	494	518	542	578	605	526
85°	171	183	199	219	231	171
90°	80	92	100	112	120	47
95°	60	68	76	84	92	48
105°	44	44	48	52	56	46
115°	28	24	24	28	32	28
125°	16	12	8	12	16	15
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°	2652.7	2652.7	2652.7	2652.7	2652.7
2.5°	2652.7	2648.7	2652.7	2652.7	2656.7
5°	2640.7	2640.7	2644.7	2644.7	2648.7
7.5°	2620.8	2620.8	2628.8	2632.8	2636.8
10°	2600.9	2600.9	2612.9	2616.8	2624.8
12.5°	2569.0	2573.0	2585.0	2596.9	2604.9
15°	2529.2	2533.2	2553.1	2569.0	2577.0
17.5°	2481.4	2489.4	2513.3	2537.2	2545.1
20°	2429.6	2441.6	2469.5	2497.3	2513.3
22.5°	2373.9	2381.8	2413.7	2449.5	2465.5
25°	2306.2	2322.1	2357.9	2397.8	2417.7
27.5°	2238.4	2254.4	2294.2	2342.0	2365.9
30°	2162.8	2178.7	2226.5	2278.3	2306.2
32.5°	2083.1	2103.0	2158.8	2210.6	2238.4
35°	2003.5	2027.4	2079.1	2134.9	2170.7
37.5°	1923.8	1943.7	1999.5	2059.2	2095.1
40°	1840.1	1860.1	1919.8	1979.6	2019.4
42.5°	1748.5	1772.4	1832.2	1895.9	1927.8
45°	1660.9	1680.8	1740.6	1812.3	1844.1
47.5°	1565.3	1593.2	1649.0	1716.7	1752.5
50°	1473.7	1497.6	1557.4	1621.1	1649.0
52.5°	1378.1	1402.0	1457.8	1521.5	1553.4
55°	1282.5	1310.4	1362.2	1421.9	1453.8
57.5°	1183.0	1210.8	1262.6	1314.4	1350.2
60°	1087.4	1115.2	1163.0	1214.8	1246.7
62.5°	979.8	1003.7	1055.5	1111.3	1135.2
65°	884.2	904.1	948.0	995.8	1019.6
67.5°	784.7	808.6	848.4	892.2	920.1
70°	685.1	713.0	744.8	784.7	816.5
72.5°	589.5	613.4	641.3	681.1	709.0
75°	493.9	517.8	541.7	577.5	605.4
77.5°	410.2	422.2	446.1	478.0	505.8
80°	318.6	334.6	354.5	386.4	406.3
82.5°	239.0	254.9	270.8	294.7	314.7
85°	171.3	183.2	199.2	219.1	231.0
87.5°	115.5	127.5	139.4	155.3	167.3
90°	79.7	91.6	99.6	111.5	119.5
92.5°	67.7	75.7	83.6	91.6	99.6
95°	59.7	67.7	75.7	83.6	91.6
97.5°	55.8	59.7	67.7	75.7	79.7
100°	51.8	55.8	59.7	67.7	71.7
102.5°	47.8	47.8	55.8	59.7	63.7
105°	43.8	43.8	47.8	51.8	55.8
107.5°	39.8	39.8	43.8	43.8	51.8
110°	35.8	31.9	35.8	35.8	43.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.9	27.9	31.9	31.9	35.8
115°	27.9	23.9	23.9	27.9	31.9
117.5°	23.9	19.9	19.9	19.9	27.9
120°	23.9	19.9	15.9	15.9	23.9
122.5°	19.9	15.9	11.9	15.9	19.9
125°	15.9	11.9	8.0	11.9	15.9
127.5°	11.9	11.9	4.0	8.0	11.9
130°	11.9	8.0	4.0	8.0	8.0
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)