

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: P384277

Luminaire Tested: **14ID-85-L850-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384277  
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-85-L850-CFD2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

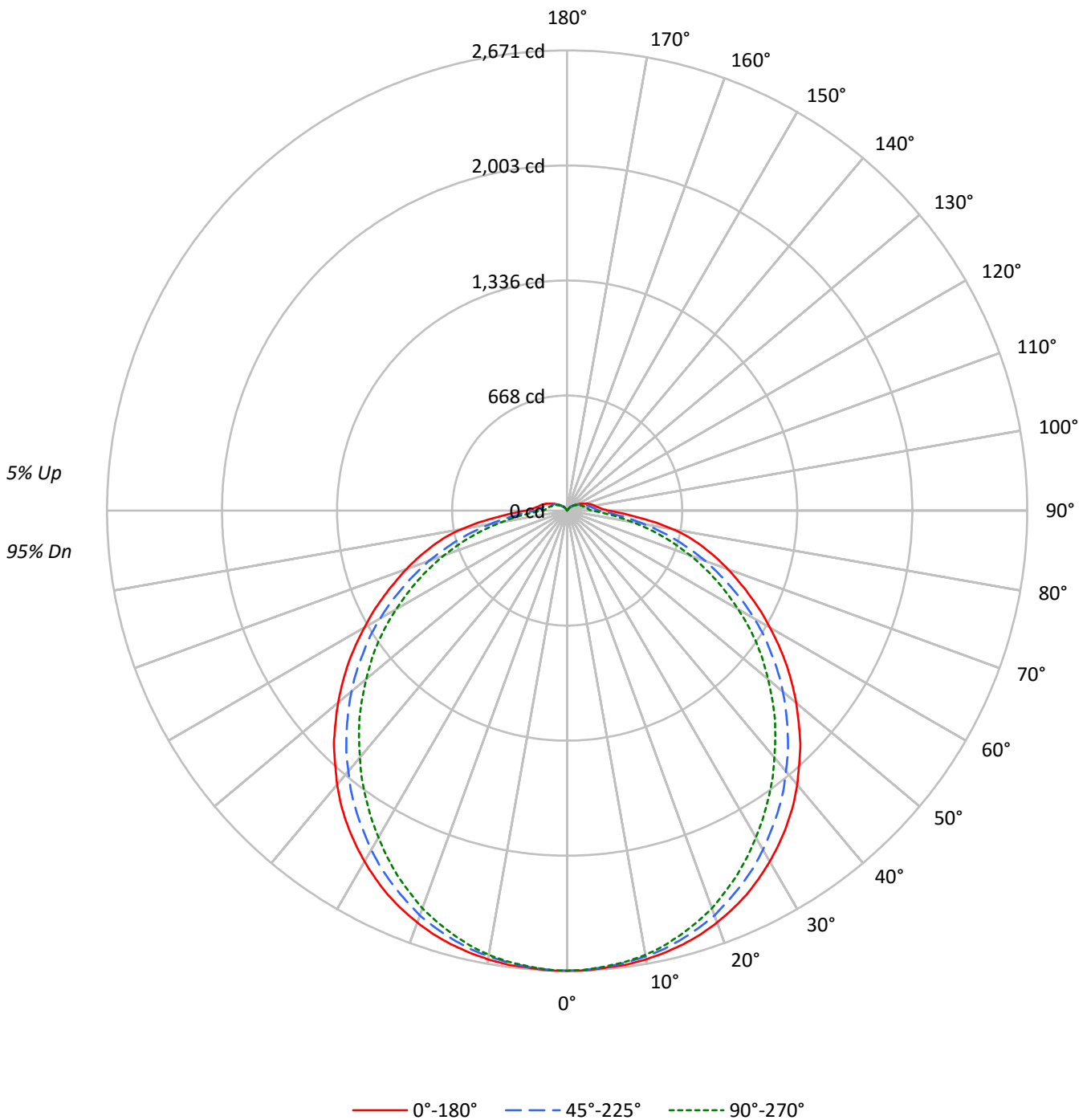
Lumens per Lamp: N/A  
Luminaire Lumens: 8663.6 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 83.3  
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°	7188	7188	7188
5°	7166	7089	7065
10°	7174	6998	6951
15°	7179	6901	6797
20°	7177	6797	6633
25°	7169	6656	6432
30°	7137	6510	6208
35°	7103	6353	5993
40°	7048	6178	5766
45°	6996	6003	5562
50°	6922	5823	5314
55°	6872	5609	5086
60°	6825	5380	4784
65°	6848	5077	4470
70°	7006	4775	4105
75°	7356	4370	3643
80°	7837	3839	3065
85°	8230	3319	2509



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.8	2.9
10°-20°	727.0	8.4
20°-30°	1104.2	12.7
30°-40°	1333.7	15.4
40°-50°	1395.9	16.1
50°-60°	1295.3	15.0
60°-70°	1049.2	12.1
70°-80°	708.0	8.2
80°-90°	342.1	3.9
90°-100°	172.1	2.0
100°-110°	125.1	1.4
110°-120°	83.6	1.0
120°-130°	48.4	0.6
130°-140°	24.4	0.3
140°-150°	1.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2083.9	24.1
0°-40°	3417.6	39.4
0°-60°	6108.8	70.5
0°-90°	8208.1	94.7
90°-120°	380.8	4.4
90°-150°	455.5	5.3
90°-180°	456.0	5.3
0°-180°	8663.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2671	2671	2671	2671	2671	
5°	2662	2658	2658	2654	2654	254
15°	2606	2592	2575	2558	2549	736
25°	2461	2439	2396	2352	2334	1134
35°	2225	2195	2133	2068	2037	1392
45°	1915	1880	1810	1736	1705	1475
55°	1552	1517	1447	1377	1342	1387
65°	1172	1128	1049	992	953	1163
75°	818	734	651	603	568	861
85°	394	341	288	262	236	372
90°	236	214	184	166	140	135
95°	188	175	157	140	122	148
105°	140	131	118	105	96	149
115°	96	87	87	74	74	96
125°	61	52	57	48	52	54
135°	35	31	31	31	35	27
145°	0	0	0	0	0	2
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°	2671.2	2671.2	2671.2	2671.2	2671.2
2.5°	2671.2	2666.8	2666.8	2666.8	2666.8
5°	2662.4	2658.0	2658.0	2653.7	2653.7
7.5°	2658.0	2649.3	2644.9	2640.5	2640.5
10°	2644.9	2636.2	2627.4	2618.7	2618.7
12.5°	2627.4	2618.7	2605.6	2588.1	2588.1
15°	2605.6	2592.5	2575.0	2557.5	2548.7
17.5°	2579.3	2566.2	2540.0	2513.8	2505.0
20°	2544.4	2526.9	2500.7	2465.7	2456.9
22.5°	2505.0	2487.5	2448.2	2413.2	2395.7
25°	2461.3	2439.4	2395.7	2352.0	2334.5
27.5°	2408.8	2387.0	2338.9	2286.4	2264.6
30°	2352.0	2325.8	2273.3	2216.5	2190.3
32.5°	2290.8	2260.2	2203.4	2142.2	2115.9
35°	2225.2	2194.6	2133.4	2067.8	2037.2
37.5°	2155.3	2124.7	2059.1	1989.2	1958.6
40°	2076.6	2046.0	1976.0	1906.1	1871.1
42.5°	1993.5	1967.3	1897.3	1823.0	1788.1
45°	1914.8	1879.9	1809.9	1735.6	1705.0
47.5°	1823.0	1796.8	1722.5	1648.2	1613.2
50°	1735.6	1705.0	1635.0	1560.7	1521.4
52.5°	1643.8	1617.6	1543.2	1468.9	1433.9
55°	1552.0	1517.0	1447.1	1377.1	1342.1
57.5°	1455.8	1425.2	1355.2	1289.7	1246.0
60°	1359.6	1329.0	1254.7	1193.5	1145.4
62.5°	1267.8	1232.8	1154.1	1088.6	1049.2
65°	1171.6	1127.9	1049.2	992.4	953.0
67.5°	1079.8	1027.4	948.7	896.2	856.9
70°	992.4	931.2	852.5	800.0	760.7
72.5°	905.0	830.6	747.6	699.5	664.5
75°	817.5	734.5	651.4	603.3	568.3
77.5°	730.1	633.9	550.8	511.5	476.5
80°	625.2	533.4	454.7	419.7	384.7
82.5°	507.1	432.8	367.2	332.3	306.0
85°	393.5	341.0	288.5	262.3	236.1
87.5°	306.0	266.7	227.3	205.5	183.6
90°	236.1	214.2	183.6	166.1	139.9
92.5°	205.5	188.0	166.1	148.6	126.8
95°	188.0	174.9	157.4	139.9	122.4
97.5°	170.5	161.8	144.3	131.2	113.7
100°	161.8	148.6	135.5	122.4	109.3
102.5°	153.0	139.9	126.8	113.7	104.9
105°	139.9	131.2	118.0	104.9	96.2
107.5°	131.2	118.0	109.3	96.2	91.8
110°	118.0	109.3	100.6	91.8	87.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	104.9	100.6	91.8	83.1	78.7
115°	96.2	87.4	87.4	74.3	74.3
117.5°	87.4	78.7	78.7	69.9	69.9
120°	74.3	69.9	69.9	61.2	61.2
122.5°	65.6	61.2	61.2	56.8	56.8
125°	61.2	52.5	56.8	48.1	52.5
127.5°	52.5	48.1	48.1	43.7	48.1
130°	43.7	39.3	39.3	39.3	43.7
132.5°	39.3	35.0	35.0	35.0	39.3
135°	35.0	30.6	30.6	30.6	35.0
137.5°	30.6	26.2	21.9	26.2	30.6
140°	26.2	21.9	17.5	21.9	26.2
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)