

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: P384201

Luminaire Tested: **24ID-65-L850-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384201  
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: 24ID-65-L850-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

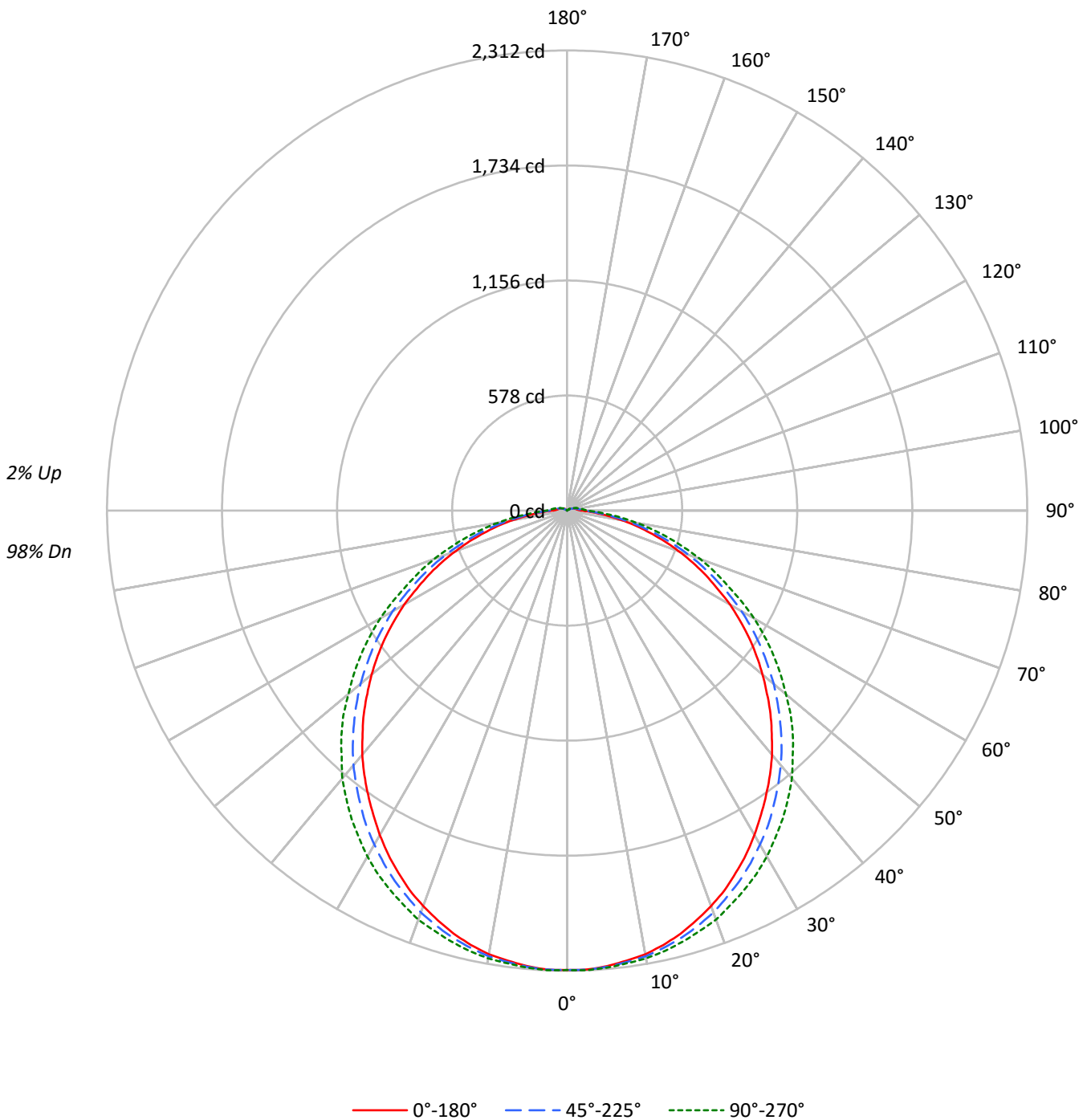
Lumens per Lamp: N/A  
Luminaire Lumens: 6836.5 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 63.6  
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°	3106	3106	3106
5°	3098	3096	3102
10°	3081	3082	3098
15°	3049	3059	3089
20°	3004	3028	3085
25°	2951	2985	3064
30°	2889	2935	3045
35°	2822	2883	3015
40°	2764	2829	2982
45°	2694	2760	2931
50°	2619	2695	2862
55°	2542	2616	2801
60°	2458	2530	2723
65°	2345	2399	2593
70°	2218	2274	2508
75°	2073	2104	2370
80°	1922	1911	2216
85°	1858	1778	2102



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.6	3.2
10°-20°	626.7	9.2
20°-30°	946.1	13.8
30°-40°	1133.6	16.6
40°-50°	1172.0	17.1
50°-60°	1061.4	15.5
60°-70°	821.3	12.0
70°-80°	504.5	7.4
80°-90°	200.5	2.9
90°-100°	73.1	1.1
100°-110°	44.9	0.7
110°-120°	23.1	0.3
120°-130°	9.9	0.1
130°-140°	0.7	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°	1791.4	26.2
0°-40°	2925.1	42.8
0°-60°	5158.5	75.5
0°-90°	6684.8	97.8
90°-120°	141.2	2.1
90°-150°	151.7	2.2
90°-180°	152.0	2.2
0°-180°	6836.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2298	2298	2301	2301	2305	218
15°	2201	2204	2222	2236	2242	620
25°	2007	2021	2052	2086	2104	925
35°	1743	1764	1809	1858	1889	1091
45°	1445	1463	1515	1577	1605	1114
55°	1116	1140	1185	1237	1265	997
65°	769	787	825	866	887	761
75°	430	451	471	503	527	458
85°	149	159	173	191	201	149
90°	69	80	87	97	104	41
95°	52	59	66	73	80	42
105°	38	38	42	45	48	40
115°	24	21	21	24	28	25
125°	14	10	7	10	14	13
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°	2308.3	2308.3	2308.3	2308.3	2308.3
2.5°	2308.3	2304.9	2308.3	2308.3	2311.8
5°	2297.9	2297.9	2301.4	2301.4	2304.9
7.5°	2280.6	2280.6	2287.5	2291.0	2294.5
10°	2263.3	2263.3	2273.7	2277.1	2284.1
12.5°	2235.5	2239.0	2249.4	2259.8	2266.7
15°	2200.9	2204.3	2221.7	2235.5	2242.5
17.5°	2159.3	2166.2	2187.0	2207.8	2214.7
20°	2114.2	2124.6	2148.9	2173.1	2187.0
22.5°	2065.7	2072.6	2100.4	2131.6	2145.4
25°	2006.8	2020.6	2051.8	2086.5	2103.8
27.5°	1947.9	1961.7	1996.4	2038.0	2058.8
30°	1882.0	1895.9	1937.5	1982.5	2006.8
32.5°	1812.7	1830.0	1878.5	1923.6	1947.9
35°	1743.4	1764.2	1809.2	1857.7	1888.9
37.5°	1674.0	1691.4	1739.9	1791.9	1823.1
40°	1601.3	1618.6	1670.6	1722.6	1757.2
42.5°	1521.5	1542.3	1594.3	1649.8	1677.5
45°	1445.3	1462.6	1514.6	1577.0	1604.7
47.5°	1362.1	1386.4	1434.9	1493.8	1525.0
50°	1282.4	1303.2	1355.2	1410.6	1434.9
52.5°	1199.2	1220.0	1268.5	1324.0	1351.7
55°	1116.0	1140.3	1185.4	1237.3	1265.1
57.5°	1029.4	1053.6	1098.7	1143.8	1175.0
60°	946.2	970.5	1012.1	1057.1	1084.8
62.5°	852.6	873.4	918.5	967.0	987.8
65°	769.4	786.8	824.9	866.5	887.3
67.5°	682.8	703.6	738.2	776.4	800.6
70°	596.1	620.4	648.1	682.8	710.5
72.5°	513.0	533.8	558.0	592.7	616.9
75°	429.8	450.6	471.4	502.6	526.8
77.5°	357.0	367.4	388.2	415.9	440.2
80°	277.3	291.1	308.5	336.2	353.5
82.5°	208.0	221.8	235.7	256.5	273.8
85°	149.0	159.4	173.3	190.6	201.0
87.5°	100.5	110.9	121.3	135.2	145.6
90°	69.3	79.7	86.6	97.0	104.0
92.5°	58.9	65.9	72.8	79.7	86.6
95°	52.0	58.9	65.9	72.8	79.7
97.5°	48.5	52.0	58.9	65.9	69.3
100°	45.1	48.5	52.0	58.9	62.4
102.5°	41.6	41.6	48.5	52.0	55.5
105°	38.1	38.1	41.6	45.1	48.5
107.5°	34.7	34.7	38.1	38.1	45.1
110°	31.2	27.7	31.2	31.2	38.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	27.7	24.3	27.7	27.7	31.2
115°	24.3	20.8	20.8	24.3	27.7
117.5°	20.8	17.3	17.3	17.3	24.3
120°	20.8	17.3	13.9	13.9	20.8
122.5°	17.3	13.9	10.4	13.9	17.3
125°	13.9	10.4	6.9	10.4	13.9
127.5°	10.4	10.4	3.5	6.9	10.4
130°	10.4	6.9	3.5	6.9	6.9
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)