

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: P384721

Luminaire Tested: **24ID-85-L850-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384721  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-85-L850-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

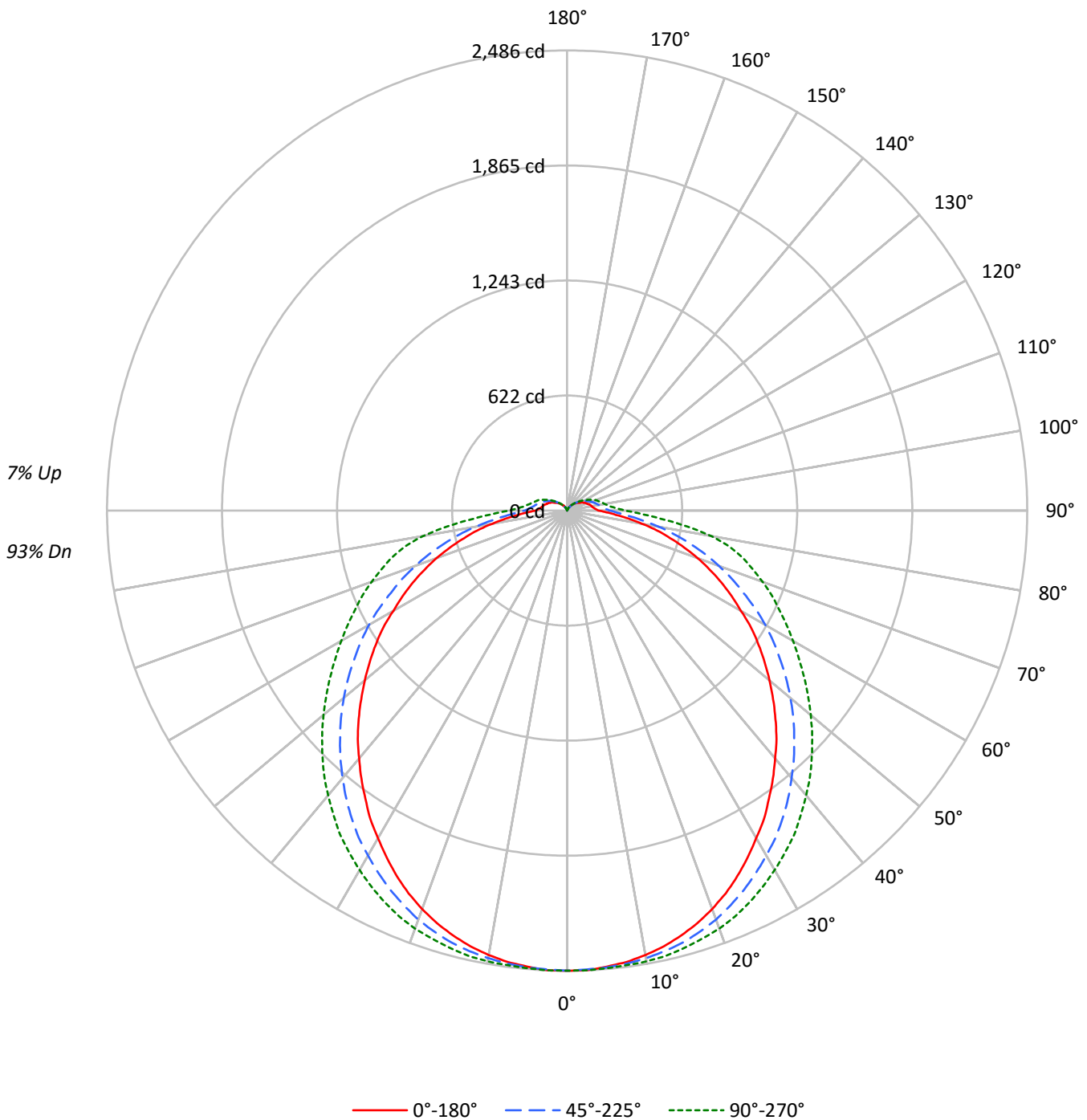
Lumens per Lamp: N/A  
Luminaire Lumens: 8698.0 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 82.4  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

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

	0°	45°	90°
0°	3344	3344	3344
5°	3321	3307	3315
10°	3294	3278	3305
15°	3257	3250	3297
20°	3207	3211	3291
25°	3141	3160	3274
30°	3064	3105	3250
35°	2990	3051	3230
40°	2917	2983	3193
45°	2851	2915	3162
50°	2780	2846	3130
55°	2718	2772	3108
60°	2633	2706	3119
65°	2582	2602	3169
70°	2519	2514	3290
75°	2432	2384	3475
80°	2357	2226	3580
85°	2383	2050	3226



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.7	2.7
10°-20°	681.1	7.8
20°-30°	1040.5	12.0
30°-40°	1266.6	14.6
40°-50°	1338.8	15.4
50°-60°	1263.7	14.5
60°-70°	1063.2	12.2
70°-80°	766.5	8.8
80°-90°	404.2	4.6
90°-100°	216.4	2.5
100°-110°	164.3	1.9
110°-120°	119.2	1.4
120°-130°	74.8	0.9
130°-140°	40.4	0.5
140°-150°	17.7	0.2
150°-160°	4.7	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1957.3	22.5
0°-40°	3223.9	37.1
0°-60°	5826.4	67.0
0°-90°	8060.3	92.7
90°-120°	499.9	5.7
90°-150°	632.8	7.3
90°-180°	638.0	7.3
0°-180°	8698.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2486	2486	2486	2486	2486	
5°	2473	2473	2477	2477	2481	235
15°	2377	2386	2416	2434	2446	670
25°	2178	2204	2260	2312	2334	1003
35°	1900	1943	2030	2108	2139	1190
45°	1592	1640	1735	1831	1870	1229
55°	1262	1319	1406	1510	1562	1128
65°	920	972	1050	1180	1262	909
75°	577	625	685	820	980	612
85°	265	299	334	416	508	248
90°	169	200	230	273	312	97
95°	148	169	195	221	239	118
105°	126	139	156	174	182	131
115°	100	108	122	130	139	100
125°	74	74	87	87	91	66
135°	52	48	52	52	56	39
145°	30	26	26	26	30	19
155°	13	13	4	9	13	6
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°	2485.6	2485.6	2485.6	2485.6	2485.6
2.5°	2485.6	2481.2	2481.2	2481.2	2485.6
5°	2472.6	2472.6	2476.9	2476.9	2481.2
7.5°	2459.6	2459.6	2468.2	2472.6	2476.9
10°	2437.9	2442.2	2455.2	2463.9	2472.6
12.5°	2411.8	2416.2	2437.9	2455.2	2463.9
15°	2377.1	2385.8	2416.2	2433.5	2446.5
17.5°	2338.1	2351.1	2385.8	2411.8	2424.9
20°	2290.4	2307.7	2351.1	2385.8	2403.2
22.5°	2238.3	2255.7	2307.7	2351.1	2372.8
25°	2177.6	2203.6	2260.0	2312.1	2333.8
27.5°	2112.5	2142.9	2208.0	2268.7	2290.4
30°	2043.1	2077.8	2151.6	2216.6	2242.7
32.5°	1978.1	2012.8	2095.2	2164.6	2190.6
35°	1900.0	1943.4	2030.1	2108.2	2138.6
37.5°	1826.2	1869.6	1960.7	2043.1	2073.5
40°	1748.1	1791.5	1887.0	1978.1	2008.4
42.5°	1674.4	1717.8	1813.2	1908.6	1943.4
45°	1592.0	1639.7	1735.1	1830.6	1869.6
47.5°	1509.6	1557.3	1657.1	1756.8	1795.9
50°	1427.1	1479.2	1574.6	1674.4	1717.8
52.5°	1344.7	1396.8	1492.2	1596.3	1639.7
55°	1262.3	1318.7	1405.5	1509.6	1561.6
57.5°	1179.9	1236.3	1323.0	1431.5	1483.5
60°	1084.5	1149.5	1236.3	1349.1	1409.8
62.5°	1002.0	1058.4	1145.2	1262.3	1336.1
65°	919.6	971.7	1049.8	1179.9	1262.3
67.5°	832.9	889.3	963.0	1084.5	1197.2
70°	750.4	798.2	871.9	997.7	1123.5
72.5°	663.7	711.4	780.8	910.9	1049.8
75°	576.9	624.6	685.4	819.9	980.4
77.5°	498.9	537.9	594.3	724.4	897.9
80°	412.1	451.1	503.2	620.3	789.5
82.5°	334.0	368.7	412.1	516.2	650.7
85°	264.6	299.3	334.0	416.4	507.5
87.5°	212.6	238.6	273.3	334.0	394.7
90°	169.2	199.5	229.9	273.3	312.3
92.5°	156.2	182.2	208.2	242.9	268.9
95°	147.5	169.2	195.2	221.2	238.6
97.5°	138.8	160.5	182.2	208.2	221.2
100°	134.5	151.8	173.5	195.2	203.9
102.5°	130.1	143.1	164.8	182.2	195.2
105°	125.8	138.8	156.2	173.5	182.2
107.5°	117.1	130.1	147.5	164.8	173.5
110°	112.8	121.5	138.8	151.8	164.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	108.4	117.1	130.1	143.1	151.8
115°	99.8	108.4	121.5	130.1	138.8
117.5°	95.4	99.8	112.8	117.1	125.8
120°	86.8	91.1	104.1	108.4	112.8
122.5°	78.1	82.4	95.4	95.4	104.1
125°	73.7	73.7	86.8	86.8	91.1
127.5°	69.4	69.4	78.1	78.1	82.4
130°	60.7	60.7	69.4	69.4	69.4
132.5°	56.4	52.1	60.7	60.7	65.1
135°	52.1	47.7	52.1	52.1	56.4
137.5°	43.4	43.4	47.7	43.4	47.7
140°	39.0	34.7	39.0	39.0	43.4
142.5°	34.7	30.4	34.7	30.4	34.7
145°	30.4	26.0	26.0	26.0	30.4
147.5°	26.0	21.7	21.7	21.7	26.0
150°	21.7	17.4	17.4	17.4	21.7
152.5°	17.4	13.0	8.7	13.0	17.4
155°	13.0	13.0	4.3	8.7	13.0
157.5°	8.7	8.7	0.0	4.3	8.7
160°	4.3	4.3	0.0	4.3	4.3
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)