

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: P384723

Luminaire Tested: **24ID-90-L835-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384723  
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-90-L835-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

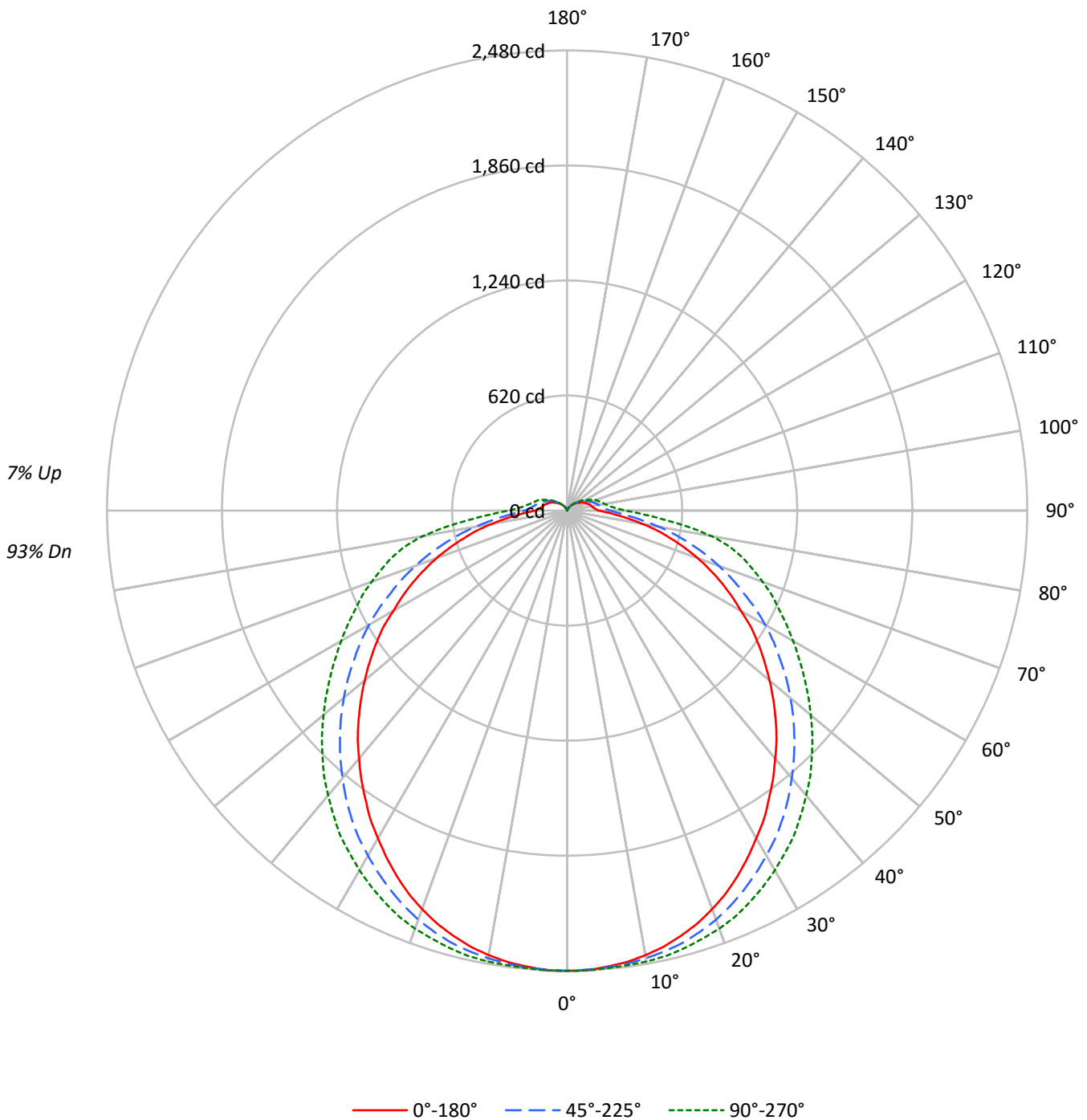
Lumens per Lamp: N/A  
Luminaire Lumens: 8679.7 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 87.3  
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	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°	3337	3337	3337
5°	3314	3300	3308
10°	3287	3271	3298
15°	3250	3243	3291
20°	3200	3205	3284
25°	3135	3153	3267
30°	3057	3098	3243
35°	2984	3045	3223
40°	2911	2976	3186
45°	2845	2909	3156
50°	2774	2840	3123
55°	2713	2766	3102
60°	2628	2700	3112
65°	2576	2597	3163
70°	2514	2509	3283
75°	2427	2378	3468
80°	2352	2221	3572
85°	2378	2046	3219



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.2	2.7
10°-20°	679.6	7.8
20°-30°	1038.4	12.0
30°-40°	1264.0	14.6
40°-50°	1335.9	15.4
50°-60°	1261.0	14.5
60°-70°	1060.9	12.2
70°-80°	764.9	8.8
80°-90°	403.4	4.6
90°-100°	215.9	2.5
100°-110°	164.0	1.9
110°-120°	118.9	1.4
120°-130°	74.7	0.9
130°-140°	40.4	0.5
140°-150°	17.6	0.2
150°-160°	4.7	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1953.2	22.5
0°-40°	3217.1	37.1
0°-60°	5814.1	67.0
0°-90°	8043.3	92.7
90°-120°	498.8	5.7
90°-150°	631.5	7.3
90°-180°	636.0	7.3
0°-180°	8679.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2480	2480	2480	2480	2480	
5°	2467	2467	2472	2472	2476	235
15°	2372	2381	2411	2428	2441	669
25°	2173	2199	2255	2307	2329	1001
35°	1896	1939	2026	2104	2134	1187
45°	1589	1636	1732	1827	1866	1226
55°	1260	1316	1402	1506	1558	1126
65°	918	970	1048	1177	1260	907
75°	576	623	684	818	978	611
85°	264	299	333	416	506	247
90°	169	199	229	273	312	97
95°	147	169	195	221	238	117
105°	126	138	156	173	182	131
115°	100	108	121	130	138	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°	2480.4	2480.4	2480.4	2480.4	2480.4
2.5°	2480.4	2476.0	2476.0	2476.0	2480.4
5°	2467.4	2467.4	2471.7	2471.7	2476.0
7.5°	2454.4	2454.4	2463.0	2467.4	2471.7
10°	2432.7	2437.1	2450.0	2458.7	2467.4
12.5°	2406.8	2411.1	2432.7	2450.0	2458.7
15°	2372.1	2380.8	2411.1	2428.4	2441.4
17.5°	2333.2	2346.2	2380.8	2406.8	2419.7
20°	2285.6	2302.9	2346.2	2380.8	2398.1
22.5°	2233.6	2250.9	2302.9	2346.2	2367.8
25°	2173.0	2199.0	2255.3	2307.2	2328.8
27.5°	2108.1	2138.4	2203.3	2263.9	2285.6
30°	2038.8	2073.5	2147.0	2212.0	2237.9
32.5°	1973.9	2008.5	2090.8	2160.0	2186.0
35°	1896.0	1939.3	2025.8	2103.8	2134.1
37.5°	1822.4	1865.7	1956.6	2038.8	2069.1
40°	1744.5	1787.8	1883.0	1973.9	2004.2
42.5°	1670.9	1714.2	1809.4	1904.6	1939.3
45°	1588.6	1636.3	1731.5	1826.7	1865.7
47.5°	1506.4	1554.0	1653.6	1753.1	1792.1
50°	1424.1	1476.1	1571.3	1670.9	1714.2
52.5°	1341.9	1393.8	1489.1	1593.0	1636.3
55°	1259.7	1315.9	1402.5	1506.4	1558.3
57.5°	1177.4	1233.7	1320.3	1428.5	1480.4
60°	1082.2	1147.1	1233.7	1346.2	1406.8
62.5°	999.9	1056.2	1142.8	1259.7	1333.2
65°	917.7	969.6	1047.5	1177.4	1259.7
67.5°	831.1	887.4	961.0	1082.2	1194.7
70°	748.9	796.5	870.1	995.6	1121.1
72.5°	662.3	709.9	779.2	909.0	1047.5
75°	575.7	623.3	683.9	818.1	978.3
77.5°	497.8	536.8	593.0	722.9	896.0
80°	411.2	450.2	502.1	619.0	787.8
82.5°	333.3	367.9	411.2	515.1	649.3
85°	264.1	298.7	333.3	415.6	506.5
87.5°	212.1	238.1	272.7	333.3	393.9
90°	168.8	199.1	229.4	272.7	311.7
92.5°	155.8	181.8	207.8	242.4	268.4
95°	147.2	168.8	194.8	220.8	238.1
97.5°	138.5	160.2	181.8	207.8	220.8
100°	134.2	151.5	173.1	194.8	203.4
102.5°	129.9	142.8	164.5	181.8	194.8
105°	125.5	138.5	155.8	173.1	181.8
107.5°	116.9	129.9	147.2	164.5	173.1
110°	112.5	121.2	138.5	151.5	164.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	108.2	116.9	129.9	142.8	151.5
115°	99.6	108.2	121.2	129.9	138.5
117.5°	95.2	99.6	112.5	116.9	125.5
120°	86.6	90.9	103.9	108.2	112.5
122.5°	77.9	82.2	95.2	95.2	103.9
125°	73.6	73.6	86.6	86.6	90.9
127.5°	69.3	69.3	77.9	77.9	82.2
130°	60.6	60.6	69.3	69.3	69.3
132.5°	56.3	51.9	60.6	60.6	64.9
135°	51.9	47.6	51.9	51.9	56.3
137.5°	43.3	43.3	47.6	43.3	47.6
140°	39.0	34.6	39.0	39.0	43.3
142.5°	34.6	30.3	34.6	30.3	34.6
145°	30.3	26.0	26.0	26.0	30.3
147.5°	26.0	21.6	21.6	21.6	26.0
150°	21.6	17.3	17.3	17.3	21.6
152.5°	17.3	13.0	8.7	13.0	17.3
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)