

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: P384212

Luminaire Tested: **24ID-80-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384212  
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-80-L840-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

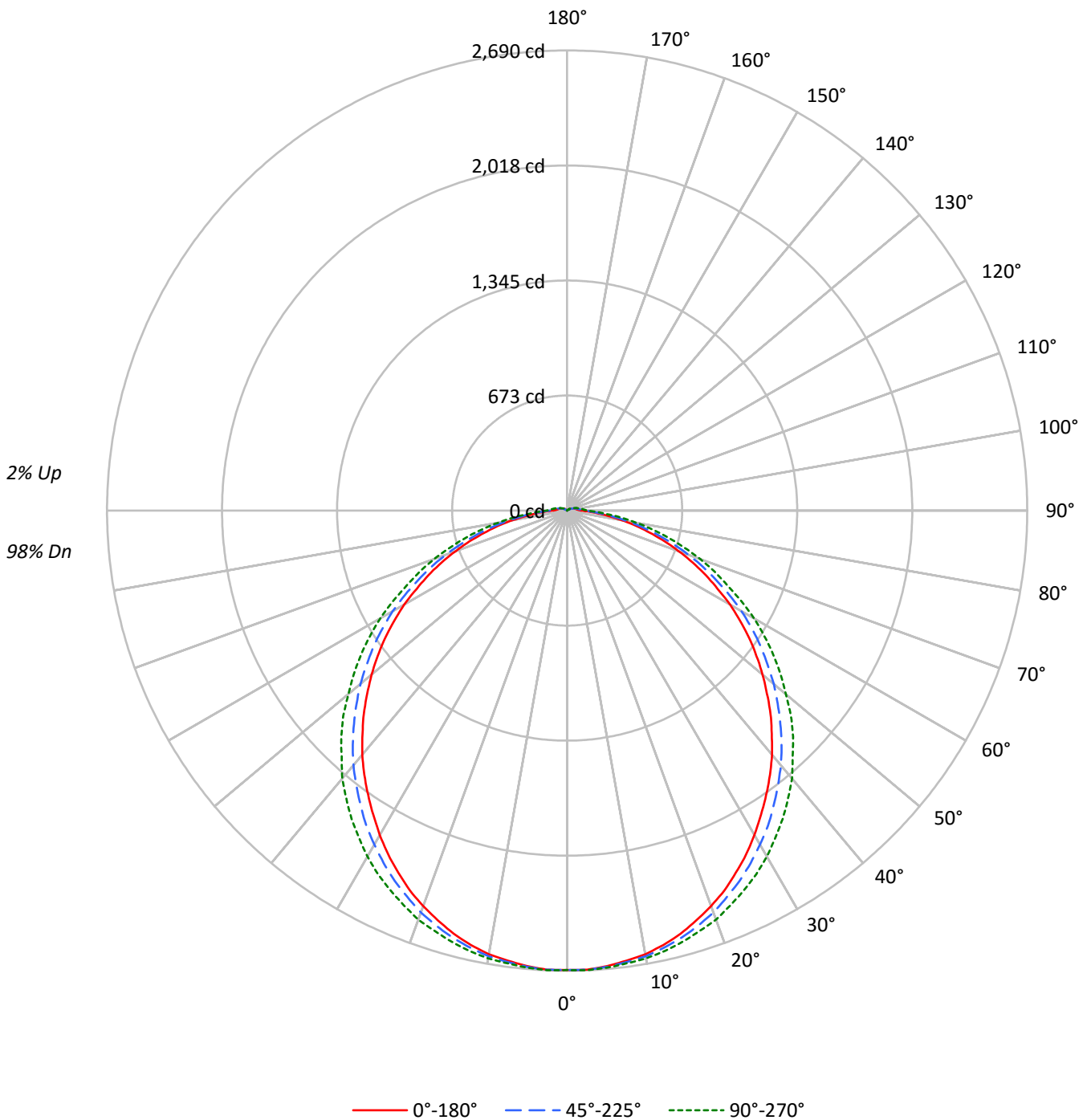
Lumens per Lamp: N/A  
Luminaire Lumens: 7954.6 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 77  
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°	3614	3614	3614
5°	3605	3603	3609
10°	3585	3586	3604
15°	3547	3559	3594
20°	3496	3523	3589
25°	3433	3473	3565
30°	3362	3415	3543
35°	3284	3354	3508
40°	3216	3292	3470
45°	3135	3211	3411
50°	3048	3135	3330
55°	2958	3043	3259
60°	2859	2944	3168
65°	2729	2791	3017
70°	2581	2645	2918
75°	2412	2448	2758
80°	2236	2224	2578
85°	2162	2068	2446



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.4	3.2
10°-20°	729.2	9.2
20°-30°	1100.9	13.8
30°-40°	1319.0	16.6
40°-50°	1363.7	17.1
50°-60°	1235.0	15.5
60°-70°	955.6	12.0
70°-80°	587.0	7.4
80°-90°	233.3	2.9
90°-100°	85.1	1.1
100°-110°	52.3	0.7
110°-120°	26.9	0.3
120°-130°	11.5	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°	2084.4	26.2
0°-40°	3403.4	42.8
0°-60°	6002.1	75.5
0°-90°	7778.0	97.8
90°-120°	164.3	2.1
90°-150°	176.6	2.2
90°-180°	177.0	2.2
0°-180°	7954.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2686	2686	2686	2686	2686	
5°	2674	2674	2678	2678	2682	254
15°	2561	2565	2585	2601	2609	722
25°	2335	2351	2387	2428	2448	1076
35°	2028	2053	2105	2162	2198	1270
45°	1682	1702	1762	1835	1867	1296
55°	1298	1327	1379	1440	1472	1160
65°	895	915	960	1008	1032	886
75°	500	524	548	585	613	533
85°	173	186	202	222	234	173
90°	81	93	101	113	121	48
95°	60	69	77	85	93	48
105°	44	44	48	52	56	47
115°	28	24	24	28	32	29
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°	2685.8	2685.8	2685.8	2685.8	2685.8
2.5°	2685.8	2681.8	2685.8	2685.8	2689.8
5°	2673.7	2673.7	2677.7	2677.7	2681.8
7.5°	2653.5	2653.5	2661.6	2665.6	2669.7
10°	2633.4	2633.4	2645.5	2649.5	2657.6
12.5°	2601.1	2605.2	2617.2	2629.3	2637.4
15°	2560.8	2564.8	2585.0	2601.1	2609.2
17.5°	2512.4	2520.5	2544.7	2568.9	2576.9
20°	2460.0	2472.1	2500.3	2528.5	2544.7
22.5°	2403.5	2411.6	2443.8	2480.1	2496.3
25°	2335.0	2351.1	2387.4	2427.7	2447.9
27.5°	2266.4	2282.5	2322.9	2371.3	2395.4
30°	2189.8	2205.9	2254.3	2306.7	2335.0
32.5°	2109.1	2129.3	2185.7	2238.2	2266.4
35°	2028.5	2052.7	2105.1	2161.5	2197.8
37.5°	1947.8	1968.0	2024.4	2084.9	2121.2
40°	1863.1	1883.3	1943.8	2004.3	2044.6
42.5°	1770.4	1794.6	1855.1	1919.6	1951.8
45°	1681.7	1701.8	1762.3	1834.9	1867.2
47.5°	1584.9	1613.1	1669.6	1738.1	1774.4
50°	1492.1	1516.3	1576.8	1641.3	1669.6
52.5°	1395.3	1419.5	1476.0	1540.5	1572.8
55°	1298.5	1326.8	1379.2	1439.7	1472.0
57.5°	1197.7	1226.0	1278.4	1330.8	1367.1
60°	1100.9	1129.2	1177.6	1230.0	1262.2
62.5°	992.1	1016.3	1068.7	1125.1	1149.3
65°	895.3	915.4	959.8	1008.2	1032.4
67.5°	794.4	818.6	859.0	903.3	931.6
70°	693.6	721.9	754.1	794.4	826.7
72.5°	596.8	621.0	649.3	689.6	717.8
75°	500.1	524.3	548.5	584.7	613.0
77.5°	415.4	427.5	451.7	483.9	512.2
80°	322.6	338.8	358.9	391.2	411.3
82.5°	242.0	258.1	274.2	298.4	318.6
85°	173.4	185.5	201.6	221.8	233.9
87.5°	116.9	129.0	141.1	157.3	169.4
90°	80.7	92.8	100.8	112.9	121.0
92.5°	68.6	76.6	84.7	92.8	100.8
95°	60.5	68.6	76.6	84.7	92.8
97.5°	56.5	60.5	68.6	76.6	80.7
100°	52.4	56.5	60.5	68.6	72.6
102.5°	48.4	48.4	56.5	60.5	64.5
105°	44.4	44.4	48.4	52.4	56.5
107.5°	40.3	40.3	44.4	44.4	52.4
110°	36.3	32.3	36.3	36.3	44.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	32.3	28.2	32.3	32.3	36.3
115°	28.2	24.2	24.2	28.2	32.3
117.5°	24.2	20.2	20.2	20.2	28.2
120°	24.2	20.2	16.1	16.1	24.2
122.5°	20.2	16.1	12.1	16.1	20.2
125°	16.1	12.1	8.1	12.1	16.1
127.5°	12.1	12.1	4.0	8.1	12.1
130°	12.1	8.1	4.0	8.1	8.1
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)