

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: P384387

Luminaire Tested: **24ID-90-L835-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384387  
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: 24ID-90-L835-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

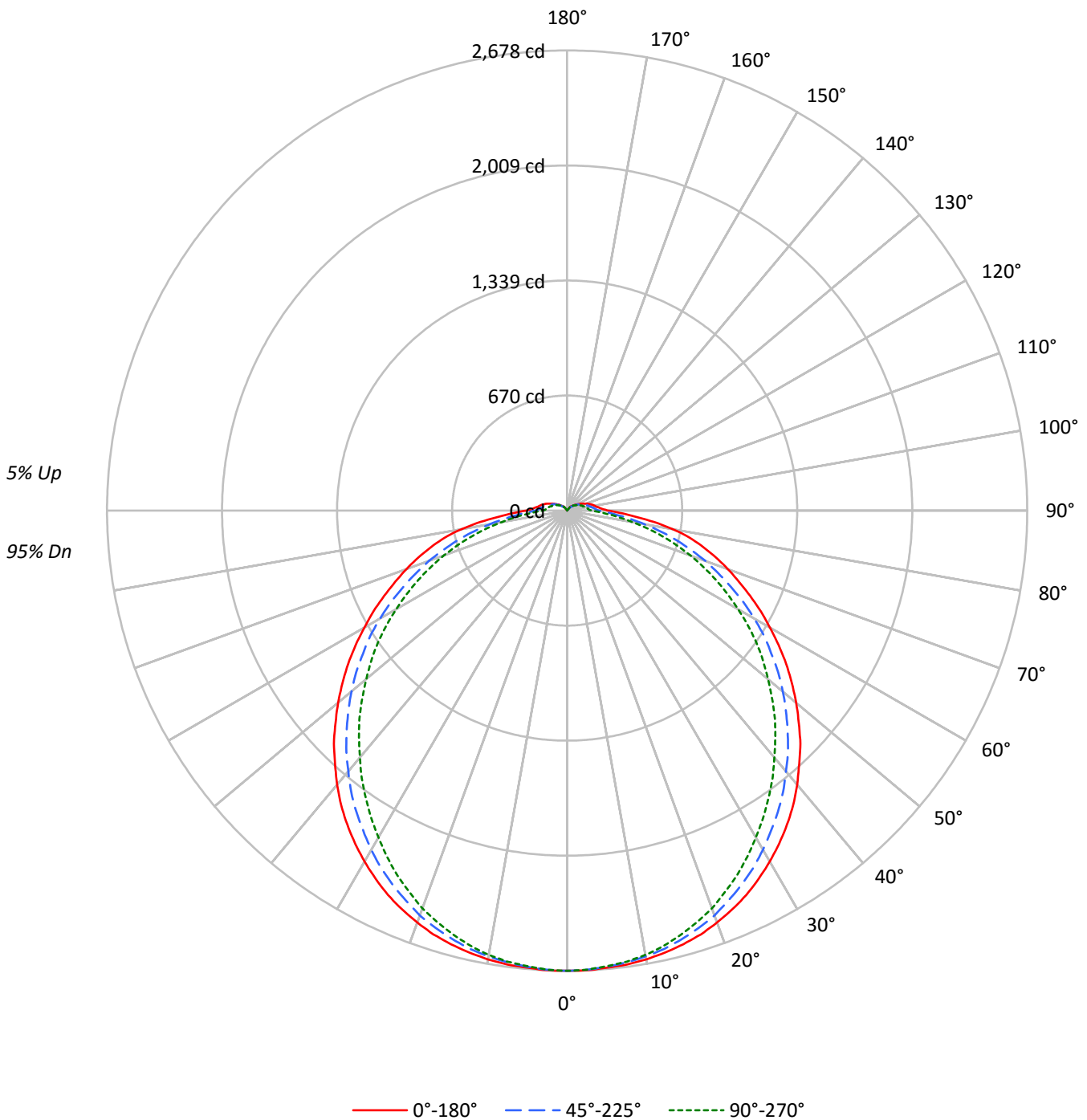
Lumens per Lamp: N/A  
Luminaire Lumens: 8686.9 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 87.3  
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	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°	3604	3604	3604
5°	3593	3572	3568
10°	3597	3544	3535
15°	3599	3513	3482
20°	3598	3478	3423
25°	3594	3425	3345
30°	3578	3369	3255
35°	3561	3309	3170
40°	3534	3240	3080
45°	3507	3173	3003
50°	3470	3105	2905
55°	3445	3022	2821
60°	3422	2936	2701
65°	3433	2816	2581
70°	3513	2706	2441
75°	3688	2553	2260
80°	3928	2353	2030
85°	4125	2222	1871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.5	2.9
10°-20°	728.9	8.4
20°-30°	1107.1	12.7
30°-40°	1337.3	15.4
40°-50°	1399.7	16.1
50°-60°	1298.8	15.0
60°-70°	1052.0	12.1
70°-80°	709.9	8.2
80°-90°	343.0	3.9
90°-100°	172.5	2.0
100°-110°	125.4	1.4
110°-120°	83.8	1.0
120°-130°	48.6	0.6
130°-140°	24.5	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°	2089.5	24.1
0°-40°	3426.8	39.4
0°-60°	6125.3	70.5
0°-90°	8230.1	94.7
90°-120°	381.8	4.4
90°-150°	456.8	5.3
90°-180°	457.0	5.3
0°-180°	8686.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2678	2678	2678	2678	2678	
5°	2670	2665	2665	2661	2661	254
15°	2613	2599	2582	2564	2556	738
25°	2468	2446	2402	2358	2341	1137
35°	2231	2200	2139	2073	2043	1396
45°	1920	1885	1815	1740	1710	1479
55°	1556	1521	1451	1381	1346	1391
65°	1175	1131	1052	995	956	1166
75°	820	736	653	605	570	863
85°	394	342	289	263	237	373
90°	237	215	184	167	140	135
95°	188	175	158	140	123	148
105°	140	132	118	105	96	150
115°	96	88	88	74	74	96
125°	61	53	57	48	53	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°	2678.3	2678.3	2678.3	2678.3	2678.3
2.5°	2678.3	2674.0	2674.0	2674.0	2674.0
5°	2669.6	2665.2	2665.2	2660.8	2660.8
7.5°	2665.2	2656.4	2652.0	2647.6	2647.6
10°	2652.0	2643.3	2634.5	2625.7	2625.7
12.5°	2634.5	2625.7	2612.6	2595.0	2595.0
15°	2612.6	2599.4	2581.9	2564.4	2555.6
17.5°	2586.3	2573.1	2546.8	2520.5	2511.8
20°	2551.2	2533.7	2507.4	2472.3	2463.5
22.5°	2511.8	2494.2	2454.8	2419.7	2402.2
25°	2467.9	2446.0	2402.2	2358.3	2340.8
27.5°	2415.3	2393.4	2345.2	2292.6	2270.7
30°	2358.3	2332.0	2279.4	2222.4	2196.1
32.5°	2297.0	2266.3	2209.3	2147.9	2121.6
35°	2231.2	2200.5	2139.2	2073.4	2042.7
37.5°	2161.1	2130.4	2064.6	1994.5	1963.8
40°	2082.2	2051.5	1981.4	1911.2	1876.1
42.5°	1998.9	1972.6	1902.5	1827.9	1792.9
45°	1920.0	1884.9	1814.8	1740.3	1709.6
47.5°	1827.9	1801.6	1727.1	1652.6	1617.5
50°	1740.3	1709.6	1639.4	1564.9	1525.5
52.5°	1648.2	1621.9	1547.4	1472.9	1437.8
55°	1556.2	1521.1	1450.9	1380.8	1345.7
57.5°	1459.7	1429.0	1358.9	1293.1	1249.3
60°	1363.3	1332.6	1258.1	1196.7	1148.5
62.5°	1271.2	1236.2	1157.3	1091.5	1052.0
65°	1174.8	1130.9	1052.0	995.1	955.6
67.5°	1082.7	1030.1	951.2	898.6	859.2
70°	995.1	933.7	854.8	802.2	762.7
72.5°	907.4	832.9	749.6	701.4	666.3
75°	819.7	736.4	653.1	604.9	569.9
77.5°	732.0	635.6	552.3	512.9	477.8
80°	626.8	534.8	455.9	420.8	385.8
82.5°	508.5	434.0	368.2	333.1	306.8
85°	394.5	341.9	289.3	263.0	236.7
87.5°	306.8	267.4	227.9	206.0	184.1
90°	236.7	214.8	184.1	166.6	140.3
92.5°	206.0	188.5	166.6	149.0	127.1
95°	188.5	175.3	157.8	140.3	122.7
97.5°	171.0	162.2	144.7	131.5	114.0
100°	162.2	149.0	135.9	122.7	109.6
102.5°	153.4	140.3	127.1	114.0	105.2
105°	140.3	131.5	118.4	105.2	96.4
107.5°	131.5	118.4	109.6	96.4	92.1
110°	118.4	109.6	100.8	92.1	87.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	105.2	100.8	92.1	83.3	78.9
115°	96.4	87.7	87.7	74.5	74.5
117.5°	87.7	78.9	78.9	70.1	70.1
120°	74.5	70.1	70.1	61.4	61.4
122.5°	65.8	61.4	61.4	57.0	57.0
125°	61.4	52.6	57.0	48.2	52.6
127.5°	52.6	48.2	48.2	43.8	48.2
130°	43.8	39.5	39.5	39.5	43.8
132.5°	39.5	35.1	35.1	35.1	39.5
135°	35.1	30.7	30.7	30.7	35.1
137.5°	30.7	26.3	21.9	26.3	30.7
140°	26.3	21.9	17.5	21.9	26.3
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)