

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: P384042

Luminaire Tested: **24ID-80-L830-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-80-L830-CFR2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

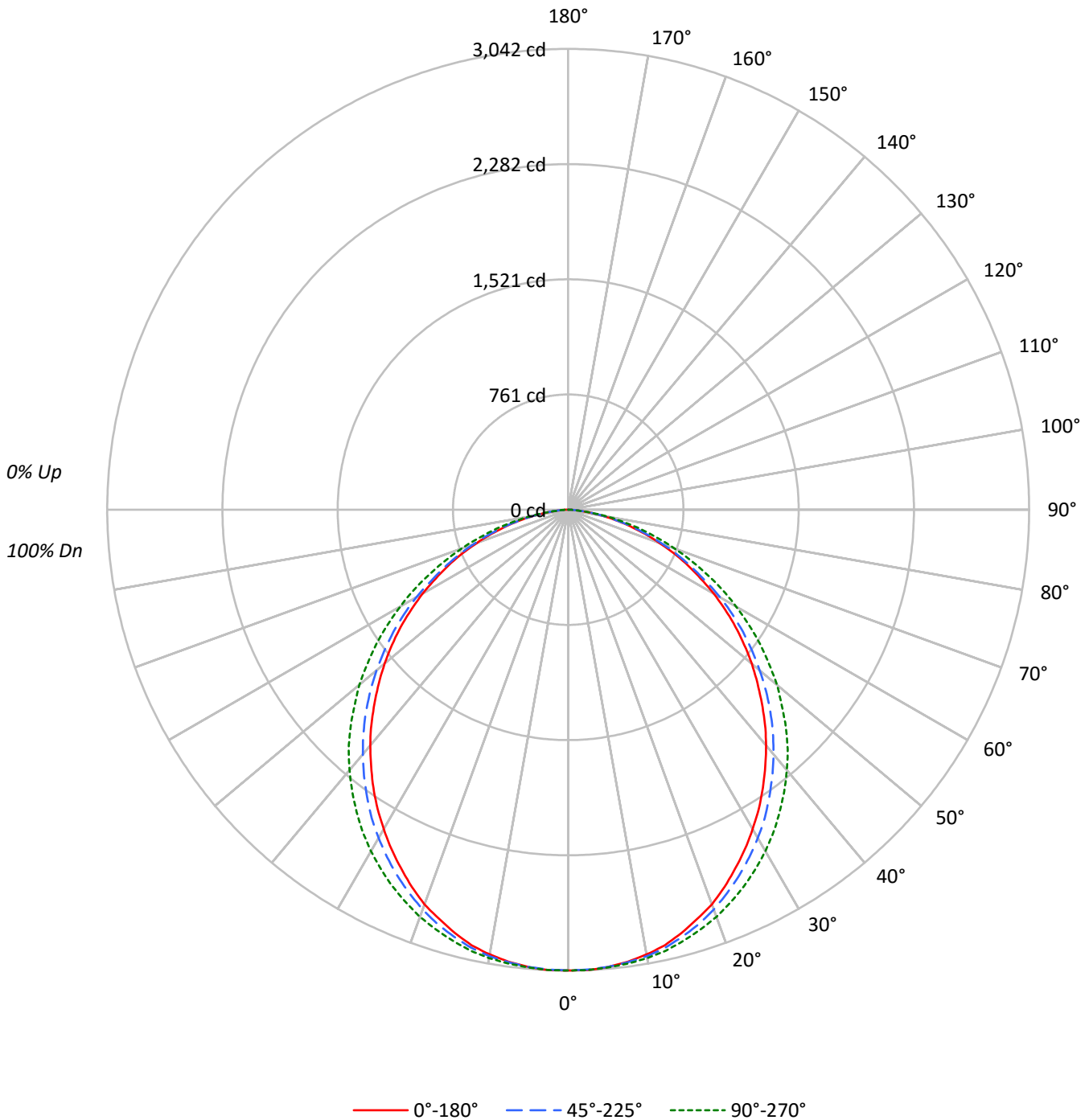
Lumens per Lamp: N/A  
Luminaire Lumens: 8029.0 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

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

	0°	45°	90°
0°	4092	4092	4092
5°	4092	4092	4097
10°	4073	4089	4106
15°	4029	4063	4102
20°	3969	4021	4096
25°	3876	3960	4073
30°	3782	3888	4044
35°	3681	3800	3998
40°	3569	3703	3943
45°	3437	3590	3866
50°	3310	3453	3764
55°	3162	3303	3624
60°	2988	3118	3443
65°	2779	2869	3215
70°	2517	2611	2944
75°	2196	2280	2572
80°	1777	1808	2026
85°	1056	1179	994



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.9	3.6
10°-20°	823.0	10.2
20°-30°	1231.0	15.3
30°-40°	1454.4	18.1
40°-50°	1467.6	18.3
50°-60°	1274.5	15.9
60°-70°	913.9	11.4
70°-80°	476.1	5.9
80°-90°	100.5	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	2341.9	29.2
0°-40°	3796.3	47.3
0°-60°	6538.5	81.4
0°-90°	8029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8029.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3042	3042	3042	3042	3042	
5°	3029	3025	3029	3029	3033	288
15°	2893	2897	2917	2937	2945	815
25°	2611	2627	2667	2720	2744	1203
35°	2241	2257	2313	2398	2434	1401
45°	1806	1826	1887	1983	2032	1395
55°	1348	1360	1408	1501	1545	1204
65°	873	869	901	970	1010	863
75°	422	418	438	471	495	451
85°	68	76	76	68	64	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3041.5	3041.5	3041.5	3041.5	3041.5
2.5°	3041.5	3037.5	3037.5	3037.5	3041.5
5°	3029.4	3025.4	3029.4	3029.4	3033.4
7.5°	3009.3	3005.3	3013.3	3017.4	3021.4
10°	2981.1	2981.1	2993.2	3001.3	3005.3
12.5°	2944.9	2944.9	2961.0	2973.1	2981.1
15°	2892.6	2896.7	2916.8	2936.9	2944.9
17.5°	2832.3	2844.4	2868.5	2896.7	2904.7
20°	2771.9	2780.0	2808.1	2844.4	2860.5
22.5°	2695.5	2707.6	2739.8	2788.0	2804.1
25°	2611.0	2627.1	2667.3	2719.6	2743.8
27.5°	2526.5	2538.6	2586.9	2647.2	2675.4
30°	2434.0	2450.1	2502.4	2570.8	2603.0
32.5°	2341.5	2353.5	2413.9	2486.3	2522.5
35°	2240.9	2257.0	2313.3	2397.8	2434.0
37.5°	2136.3	2156.4	2212.7	2301.2	2341.5
40°	2031.7	2043.8	2108.1	2196.6	2244.9
42.5°	1923.1	1939.2	1999.5	2096.1	2144.3
45°	1806.4	1826.5	1886.9	1983.4	2031.7
47.5°	1693.7	1713.9	1770.2	1866.7	1911.0
50°	1581.1	1593.2	1649.5	1746.0	1798.3
52.5°	1464.4	1476.5	1528.8	1621.3	1669.6
55°	1347.8	1359.8	1408.1	1500.6	1544.9
57.5°	1227.1	1235.1	1283.4	1367.9	1412.1
60°	1110.4	1114.4	1158.7	1235.1	1279.4
62.5°	985.7	989.7	1021.9	1110.4	1150.6
65°	873.0	869.0	901.2	969.6	1009.8
67.5°	756.3	756.3	784.5	844.9	877.0
70°	639.7	639.7	663.8	716.1	748.3
72.5°	531.1	531.1	551.2	591.4	615.5
75°	422.4	418.4	438.5	470.7	494.8
77.5°	321.9	321.9	329.9	358.1	374.2
80°	229.3	229.3	233.3	249.4	261.5
82.5°	144.8	144.8	144.8	152.9	156.9
85°	68.4	76.4	76.4	68.4	64.4
87.5°	32.2	32.2	28.2	28.2	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)