

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: P383878

Luminaire Tested: **24ID-85-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-85-L830-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

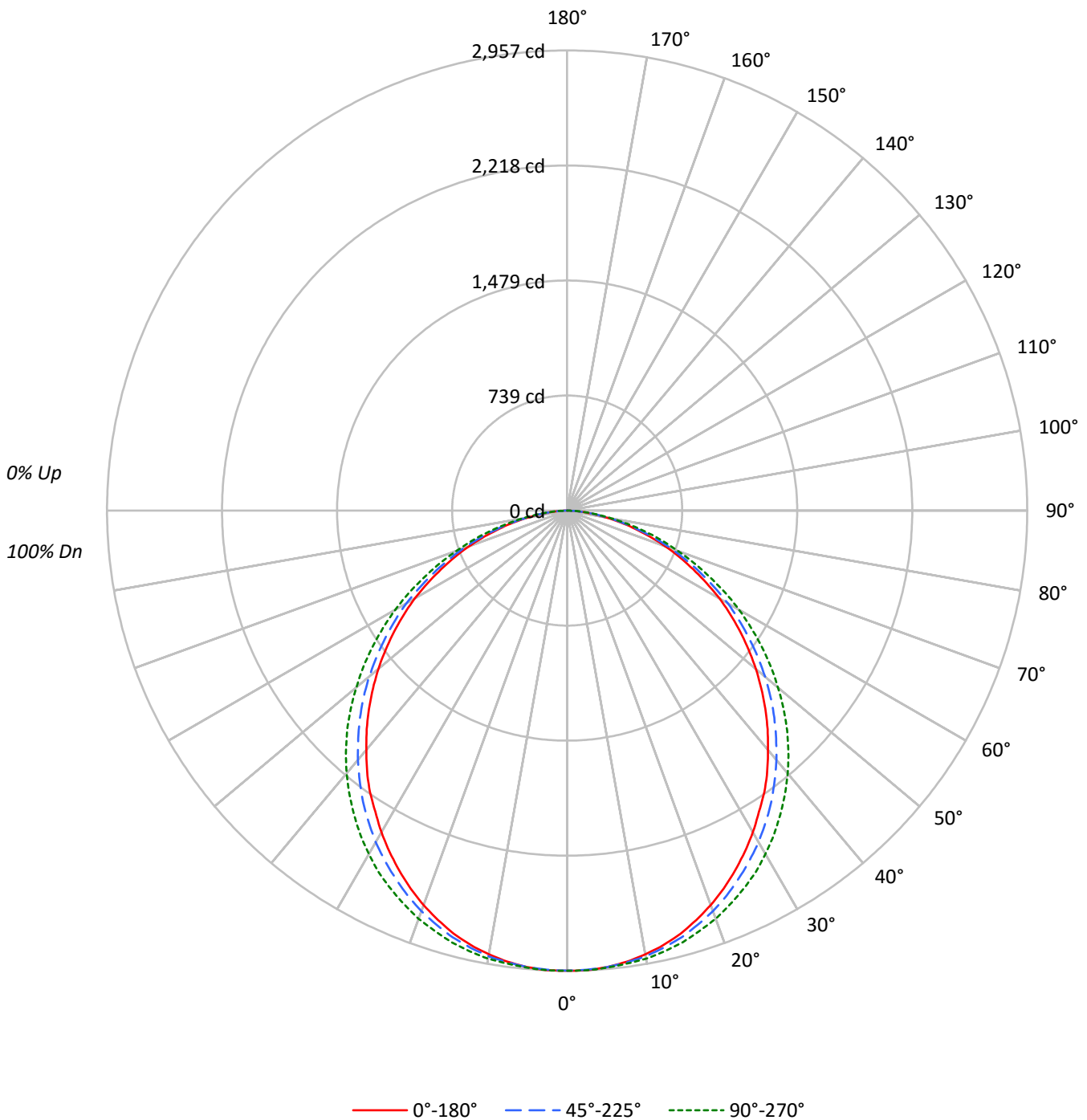
Lumens per Lamp: N/A
Luminaire Lumens: 8029.9 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): 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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3978	3978	3978
5°	3977	3977	3982
10°	3957	3973	3995
15°	3922	3955	4000
20°	3863	3921	3996
25°	3790	3874	3982
30°	3709	3822	3960
35°	3629	3755	3921
40°	3526	3675	3874
45°	3428	3582	3804
50°	3314	3475	3703
55°	3184	3345	3582
60°	3043	3207	3435
65°	2842	3009	3215
70°	2638	2781	2971
75°	2352	2478	2688
80°	1972	2066	2253
85°	1496	1496	1684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	3.5
10°-20°	800.7	10.0
20°-30°	1204.0	15.0
30°-40°	1432.2	17.8
40°-50°	1457.3	18.1
50°-60°	1282.5	16.0
60°-70°	940.8	11.7
70°-80°	510.7	6.4
80°-90°	121.8	1.5
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°	2284.5	28.4
0°-40°	3716.7	46.3
0°-60°	6456.6	80.4
0°-90°	8029.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8029.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2957	2957	2957	2957	2957	
5°	2945	2940	2945	2945	2949	280
15°	2815	2819	2840	2856	2872	793
25°	2553	2569	2609	2654	2682	1176
35°	2209	2226	2286	2355	2387	1380
45°	1802	1818	1882	1963	1999	1389
55°	1357	1377	1426	1494	1527	1214
65°	893	909	945	986	1010	887
75°	452	460	477	501	517	481
85°	97	97	97	105	109	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2956.7	2956.7	2956.7	2956.7	2956.7
2.5°	2956.7	2952.6	2952.6	2952.6	2956.7
5°	2944.6	2940.5	2944.6	2944.6	2948.6
7.5°	2924.4	2920.3	2928.4	2932.4	2936.5
10°	2896.1	2896.1	2908.2	2916.3	2924.4
12.5°	2859.7	2863.8	2875.9	2888.0	2900.1
15°	2815.3	2819.3	2839.5	2855.7	2871.9
17.5°	2758.8	2766.8	2791.1	2815.3	2831.5
20°	2698.2	2710.3	2738.6	2770.9	2791.1
22.5°	2629.5	2645.7	2678.0	2718.4	2738.6
25°	2552.8	2568.9	2609.3	2653.7	2682.0
27.5°	2472.0	2492.2	2536.6	2589.1	2621.4
30°	2387.2	2407.3	2459.9	2516.4	2548.7
32.5°	2294.3	2318.5	2375.0	2439.7	2472.0
35°	2209.4	2225.6	2286.2	2354.8	2387.2
37.5°	2112.5	2132.7	2189.2	2261.9	2298.3
40°	2007.5	2027.7	2092.3	2165.0	2205.4
42.5°	1906.5	1922.6	1987.3	2068.1	2104.4
45°	1801.5	1817.6	1882.3	1963.0	1999.4
47.5°	1692.4	1712.6	1773.2	1849.9	1886.3
50°	1583.4	1599.5	1660.1	1732.8	1769.2
52.5°	1470.3	1486.4	1543.0	1615.7	1652.0
55°	1357.2	1377.4	1425.8	1494.5	1526.8
57.5°	1244.1	1264.3	1308.7	1373.3	1401.6
60°	1131.0	1147.1	1191.6	1248.1	1276.4
62.5°	1009.8	1021.9	1066.3	1122.9	1147.1
65°	892.7	908.8	945.2	985.6	1009.8
67.5°	783.6	791.7	824.0	868.4	884.6
70°	670.5	678.6	706.9	743.2	755.3
72.5°	557.4	569.5	589.7	622.0	638.2
75°	452.4	460.5	476.6	500.9	517.0
77.5°	351.4	355.4	367.6	387.8	399.9
80°	254.5	258.5	266.6	282.7	290.8
82.5°	169.6	173.7	177.7	185.8	193.9
85°	96.9	96.9	96.9	105.0	109.1
87.5°	36.4	32.3	32.3	32.3	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)