

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: P383766

Luminaire Tested: **14ID-80-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383766
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: 14ID-80-L830-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

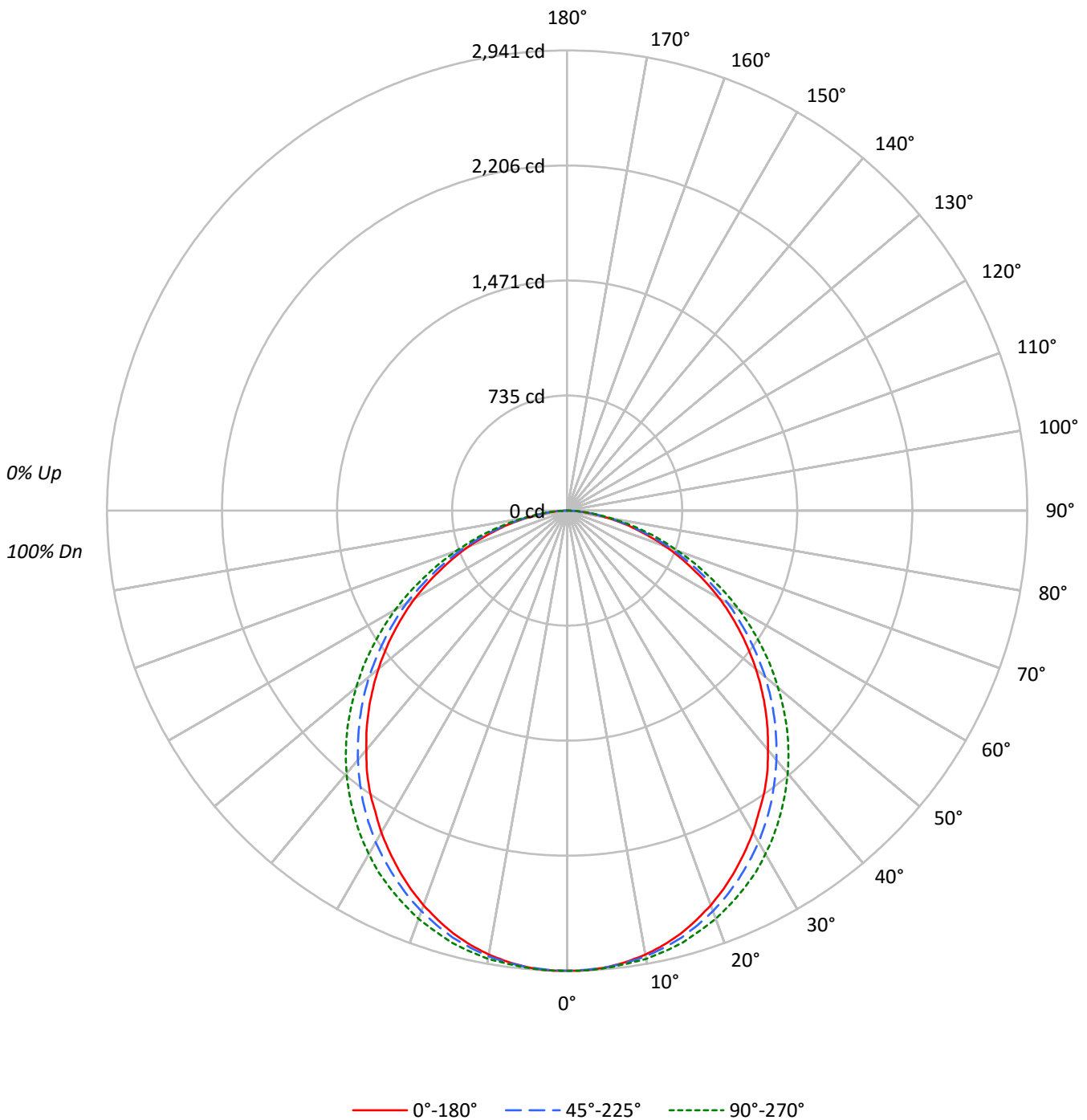
Lumens per Lamp: N/A
Luminaire Lumens: 7988.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 77.1
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°	7915	7915	7915
5°	7913	7913	7923
10°	7872	7905	7949
15°	7802	7869	7959
20°	7686	7802	7951
25°	7540	7707	7922
30°	7379	7604	7878
35°	7220	7471	7801
40°	7015	7312	7707
45°	6820	7126	7569
50°	6594	6913	7368
55°	6334	6655	7126
60°	6055	6379	6833
65°	5654	5987	6396
70°	5248	5533	5912
75°	4679	4929	5347
80°	3922	4110	4483
85°	2976	2976	3350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	3.5
10°-20°	796.5	10.0
20°-30°	1197.7	15.0
30°-40°	1424.8	17.8
40°-50°	1449.7	18.1
50°-60°	1275.9	16.0
60°-70°	935.9	11.7
70°-80°	508.0	6.4
80°-90°	121.2	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°	2272.6	28.4
0°-40°	3697.3	46.3
0°-60°	6422.9	80.4
0°-90°	7988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2941	2941	2941	2941	2941	
5°	2929	2925	2929	2929	2933	278
15°	2801	2805	2825	2841	2857	789
25°	2539	2556	2596	2640	2668	1170
35°	2198	2214	2274	2343	2375	1372
45°	1792	1808	1872	1953	1989	1381
55°	1350	1370	1418	1487	1519	1207
65°	888	904	940	980	1004	883
75°	450	458	474	498	514	478
85°	96	96	96	104	108	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2941.2	2941.2	2941.2	2941.2	2941.2
2.5°	2941.2	2937.2	2937.2	2937.2	2941.2
5°	2929.2	2925.2	2929.2	2929.2	2933.2
7.5°	2909.1	2905.1	2913.1	2917.1	2921.2
10°	2881.0	2881.0	2893.0	2901.1	2909.1
12.5°	2844.8	2848.8	2860.9	2872.9	2885.0
15°	2800.6	2804.6	2824.7	2840.8	2856.9
17.5°	2744.4	2752.4	2776.5	2800.6	2816.7
20°	2684.1	2696.1	2724.3	2756.4	2776.5
22.5°	2615.8	2631.9	2664.0	2704.2	2724.3
25°	2539.4	2555.5	2595.7	2639.9	2668.0
27.5°	2459.1	2479.2	2523.4	2575.6	2607.7
30°	2374.7	2394.8	2447.0	2503.3	2535.4
32.5°	2282.3	2306.4	2362.6	2426.9	2459.1
35°	2197.9	2214.0	2274.2	2342.6	2374.7
37.5°	2101.5	2121.6	2177.8	2250.1	2286.3
40°	1997.0	2017.1	2081.4	2153.7	2193.9
42.5°	1896.5	1912.6	1976.9	2057.3	2093.4
45°	1792.1	1808.1	1872.4	1952.8	1989.0
47.5°	1683.6	1703.7	1763.9	1840.3	1876.5
50°	1575.1	1591.2	1651.4	1723.8	1759.9
52.5°	1462.6	1478.7	1534.9	1607.2	1643.4
55°	1350.1	1370.2	1418.4	1486.7	1518.8
57.5°	1237.6	1257.7	1301.9	1366.2	1394.3
60°	1125.1	1141.1	1185.3	1241.6	1269.7
62.5°	1004.5	1016.6	1060.8	1117.0	1141.1
65°	888.0	904.1	940.2	980.4	1004.5
67.5°	779.5	787.5	819.7	863.9	880.0
70°	667.0	675.0	703.2	739.3	751.4
72.5°	554.5	566.6	586.6	618.8	634.9
75°	450.0	458.1	474.1	498.2	514.3
77.5°	349.6	353.6	365.6	385.7	397.8
80°	253.1	257.2	265.2	281.3	289.3
82.5°	168.8	172.8	176.8	184.8	192.9
85°	96.4	96.4	96.4	104.5	108.5
87.5°	36.2	32.1	32.1	32.1	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)