

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: P383934

Luminaire Tested: **14ID-80-L830-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383934
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: 14ID-80-L830-CFR2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

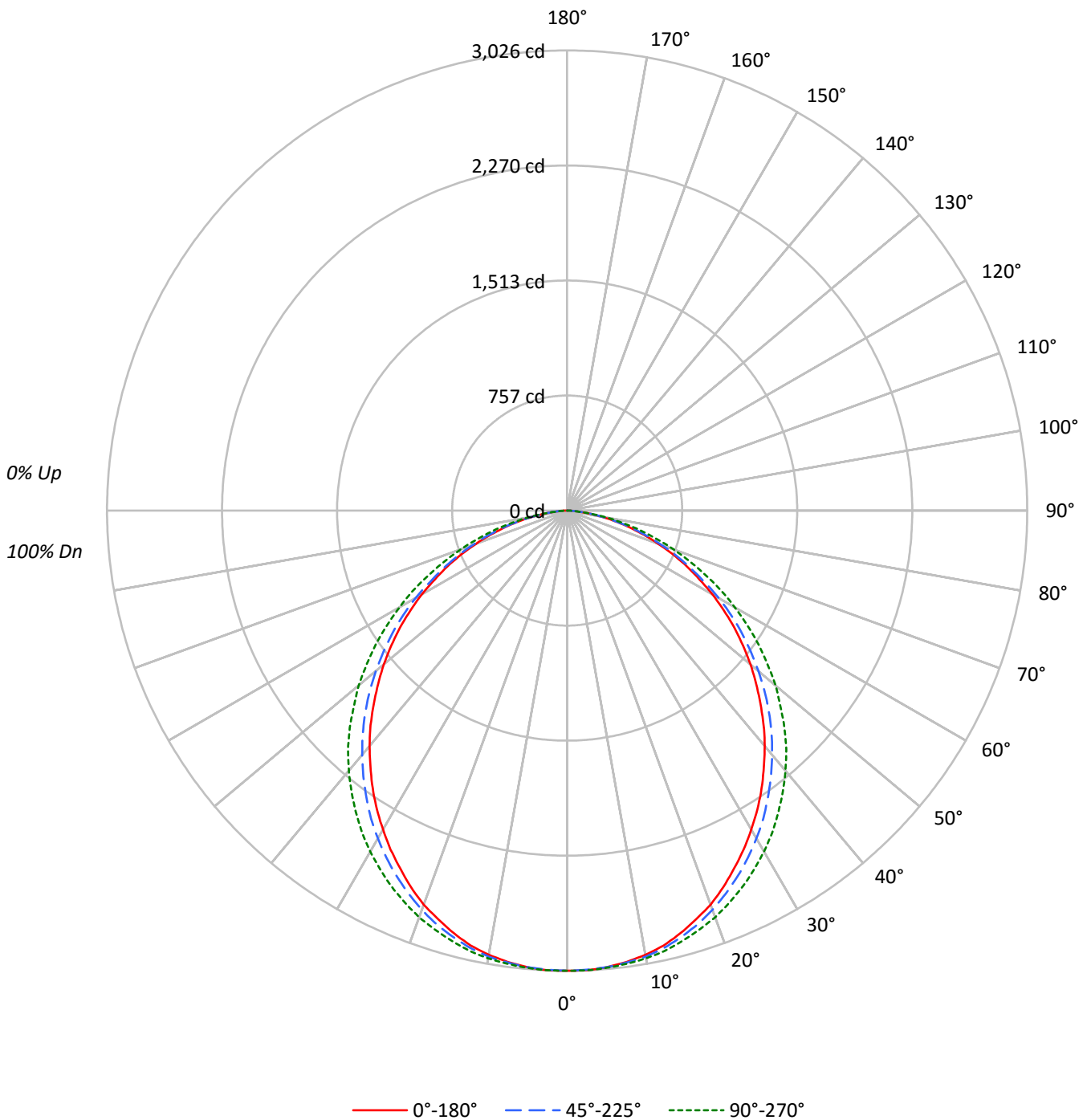
Lumens per Lamp: N/A
Luminaire Lumens: 7988.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8143	8143	8143
5°	8142	8142	8152
10°	8104	8137	8170
15°	8018	8084	8162
20°	7897	8001	8149
25°	7713	7879	8105
30°	7525	7736	8047
35°	7324	7561	7955
40°	7100	7368	7846
45°	6839	7144	7692
50°	6585	6870	7490
55°	6291	6572	7211
60°	5945	6204	6850
65°	5531	5709	6397
70°	5007	5196	5858
75°	4370	4536	5119
80°	3535	3598	4032
85°	2100	2347	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	3.6
10°-20°	818.7	10.2
20°-30°	1224.7	15.3
30°-40°	1447.0	18.1
40°-50°	1460.1	18.3
50°-60°	1268.0	15.9
60°-70°	909.3	11.4
70°-80°	473.7	5.9
80°-90°	100.0	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°	2330.0	29.2
0°-40°	3777.0	47.3
0°-60°	6505.1	81.4
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°	3026	3026	3026	3026	3026	
5°	3014	3010	3014	3014	3018	286
15°	2878	2882	2902	2922	2930	811
25°	2598	2614	2654	2706	2730	1197
35°	2229	2246	2302	2386	2422	1394
45°	1797	1817	1877	1973	2021	1388
55°	1341	1353	1401	1493	1537	1198
65°	869	865	897	965	1005	859
75°	420	416	436	468	492	448
85°	68	76	76	68	64	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3026.0	3026.0	3026.0	3026.0	3026.0
2.5°	3026.0	3022.0	3022.0	3022.0	3026.0
5°	3014.0	3009.9	3014.0	3014.0	3018.0
7.5°	2993.9	2989.9	2997.9	3001.9	3005.9
10°	2965.9	2965.9	2977.9	2985.9	2989.9
12.5°	2929.9	2929.9	2945.9	2957.9	2965.9
15°	2877.9	2881.9	2901.9	2921.9	2929.9
17.5°	2817.8	2829.8	2853.8	2881.9	2889.9
20°	2757.8	2765.8	2793.8	2829.8	2845.8
22.5°	2681.7	2693.7	2725.8	2773.8	2789.8
25°	2597.7	2613.7	2653.7	2705.8	2729.8
27.5°	2513.6	2525.6	2573.7	2633.7	2661.7
30°	2421.6	2437.6	2489.6	2557.7	2589.7
32.5°	2329.5	2341.5	2401.6	2473.6	2509.6
35°	2229.4	2245.5	2301.5	2385.5	2421.6
37.5°	2125.4	2145.4	2201.4	2289.5	2329.5
40°	2021.3	2033.3	2097.4	2185.4	2233.4
42.5°	1913.2	1929.2	1989.3	2085.4	2133.4
45°	1797.2	1817.2	1877.2	1973.3	2021.3
47.5°	1685.1	1705.1	1761.1	1857.2	1901.2
50°	1573.0	1585.0	1641.1	1737.1	1789.2
52.5°	1456.9	1469.0	1521.0	1613.0	1661.1
55°	1340.9	1352.9	1400.9	1493.0	1537.0
57.5°	1220.8	1228.8	1276.8	1360.9	1404.9
60°	1104.7	1108.7	1152.7	1228.8	1272.8
62.5°	980.6	984.6	1016.7	1104.7	1144.7
65°	868.6	864.6	896.6	964.6	1004.7
67.5°	752.5	752.5	780.5	840.5	872.6
70°	636.4	636.4	660.4	712.5	744.5
72.5°	528.3	528.3	548.4	588.4	612.4
75°	420.3	416.3	436.3	468.3	492.3
77.5°	320.2	320.2	328.2	356.2	372.2
80°	228.1	228.1	232.2	248.2	260.2
82.5°	144.1	144.1	144.1	152.1	156.1
85°	68.0	76.0	76.0	68.0	64.0
87.5°	32.0	32.0	28.0	28.0	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)