

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: P385110

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-80-L830-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

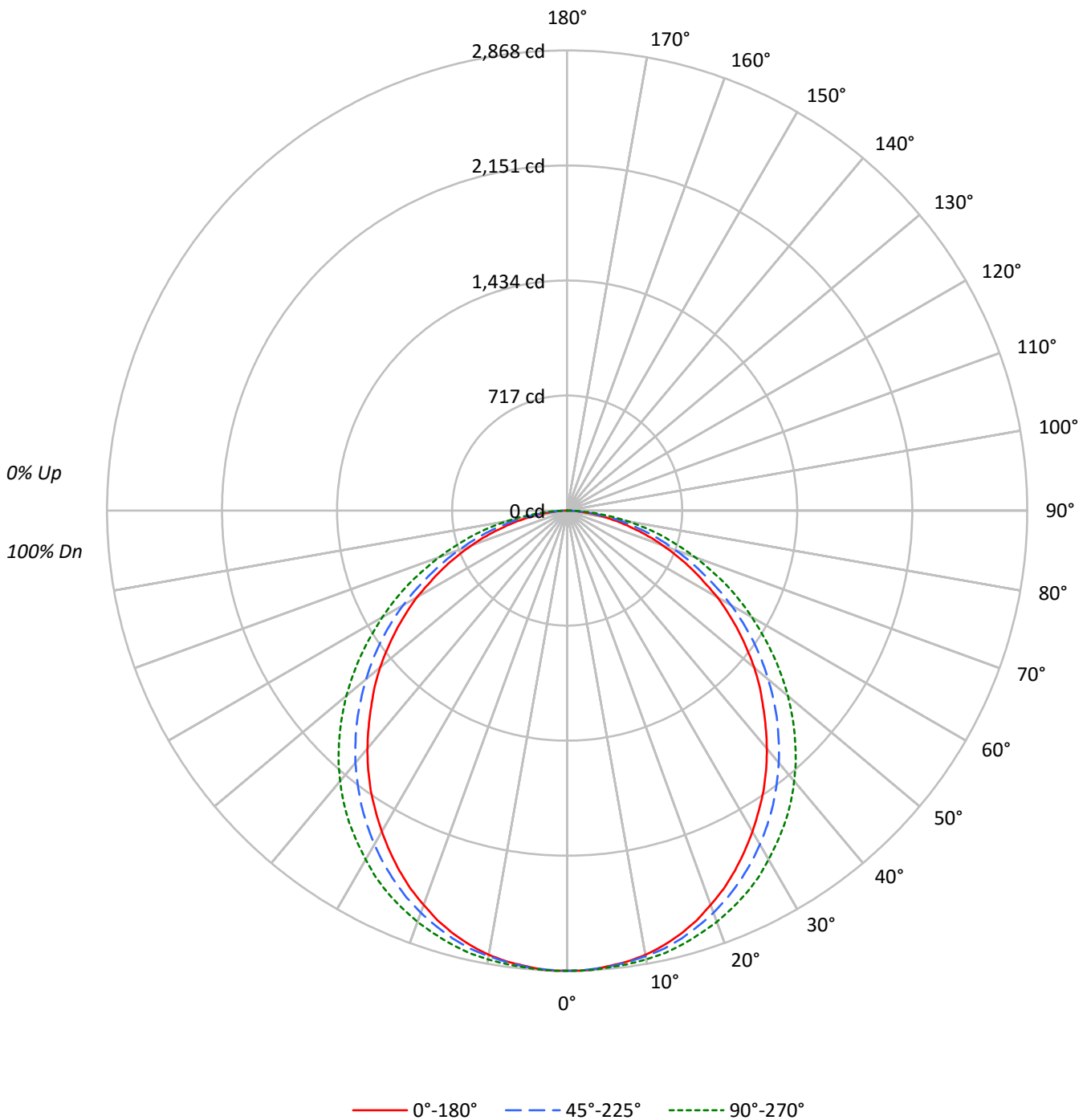
Lumens per Lamp: N/A
Luminaire Lumens: 7963.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7719	7719	7719
5°	7705	7716	7726
10°	7684	7706	7761
15°	7610	7689	7789
20°	7489	7639	7811
25°	7347	7562	7825
30°	7177	7465	7802
35°	7008	7351	7786
40°	6802	7211	7733
45°	6574	7048	7644
50°	6374	6845	7518
55°	6107	6634	7350
60°	5816	6357	7156
65°	5423	5985	6958
70°	4994	5626	6669
75°	4427	5221	6390
80°	3735	4669	5914
85°	2729	3597	4715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	3.4
10°-20°	778.9	9.8
20°-30°	1174.8	14.8
30°-40°	1402.5	17.6
40°-50°	1433.4	18.0
50°-60°	1271.1	16.0
60°-70°	947.5	11.9
70°-80°	541.3	6.8
80°-90°	142.8	1.8
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°	2225.3	27.9
0°-40°	3627.8	45.6
0°-60°	6332.3	79.5
0°-90°	7963.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7963.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2868	2868	2868	2868	2868	
5°	2852	2852	2856	2856	2860	271
15°	2732	2740	2760	2784	2796	770
25°	2475	2495	2547	2603	2635	1139
35°	2133	2161	2238	2326	2370	1333
45°	1727	1764	1852	1952	2009	1335
55°	1302	1326	1414	1514	1567	1163
65°	852	872	940	1036	1093	844
75°	426	446	502	578	615	454
85°	88	92	116	145	153	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2868.3	2868.3	2868.3	2868.3	2868.3
2.5°	2868.3	2864.3	2864.3	2864.3	2868.3
5°	2852.2	2852.2	2856.3	2856.3	2860.3
7.5°	2836.2	2836.2	2840.2	2844.2	2852.2
10°	2812.1	2812.1	2820.1	2832.2	2840.2
12.5°	2775.9	2779.9	2796.0	2812.1	2824.1
15°	2731.7	2739.8	2759.9	2784.0	2796.0
17.5°	2679.5	2687.5	2715.7	2747.8	2763.9
20°	2615.2	2631.3	2667.5	2707.6	2727.7
22.5°	2551.0	2567.0	2611.2	2659.4	2683.5
25°	2474.6	2494.7	2546.9	2603.2	2635.3
27.5°	2394.3	2418.4	2478.6	2542.9	2579.1
30°	2309.9	2338.0	2402.3	2474.6	2510.8
32.5°	2221.5	2249.7	2322.0	2402.3	2442.5
35°	2133.2	2161.3	2237.6	2326.0	2370.2
37.5°	2036.7	2064.9	2145.2	2241.6	2289.8
40°	1936.3	1968.5	2052.8	2149.2	2201.5
42.5°	1831.9	1868.0	1952.4	2056.8	2109.1
45°	1727.4	1763.6	1852.0	1952.4	2008.6
47.5°	1627.0	1655.1	1743.5	1847.9	1904.2
50°	1522.5	1546.6	1635.0	1739.5	1795.7
52.5°	1410.1	1442.2	1526.6	1631.0	1683.2
55°	1301.6	1325.7	1414.1	1514.5	1566.7
57.5°	1189.1	1213.2	1297.6	1398.0	1446.2
60°	1080.6	1104.7	1181.1	1281.5	1329.7
62.5°	960.1	984.2	1060.6	1165.0	1213.2
65°	851.7	871.7	940.0	1036.5	1092.7
67.5°	743.2	763.3	827.6	920.0	964.1
70°	634.7	650.8	715.1	799.4	847.6
72.5°	530.3	546.3	610.6	687.0	727.1
75°	425.8	445.9	502.2	578.5	614.6
77.5°	329.4	349.5	397.7	466.0	498.1
80°	241.0	257.1	301.3	353.5	381.6
82.5°	160.7	172.7	204.9	249.1	269.2
85°	88.4	92.4	116.5	144.6	152.7
87.5°	36.2	36.2	44.2	48.2	52.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)