

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: P385222

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385222
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: 24ID-85-L830-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

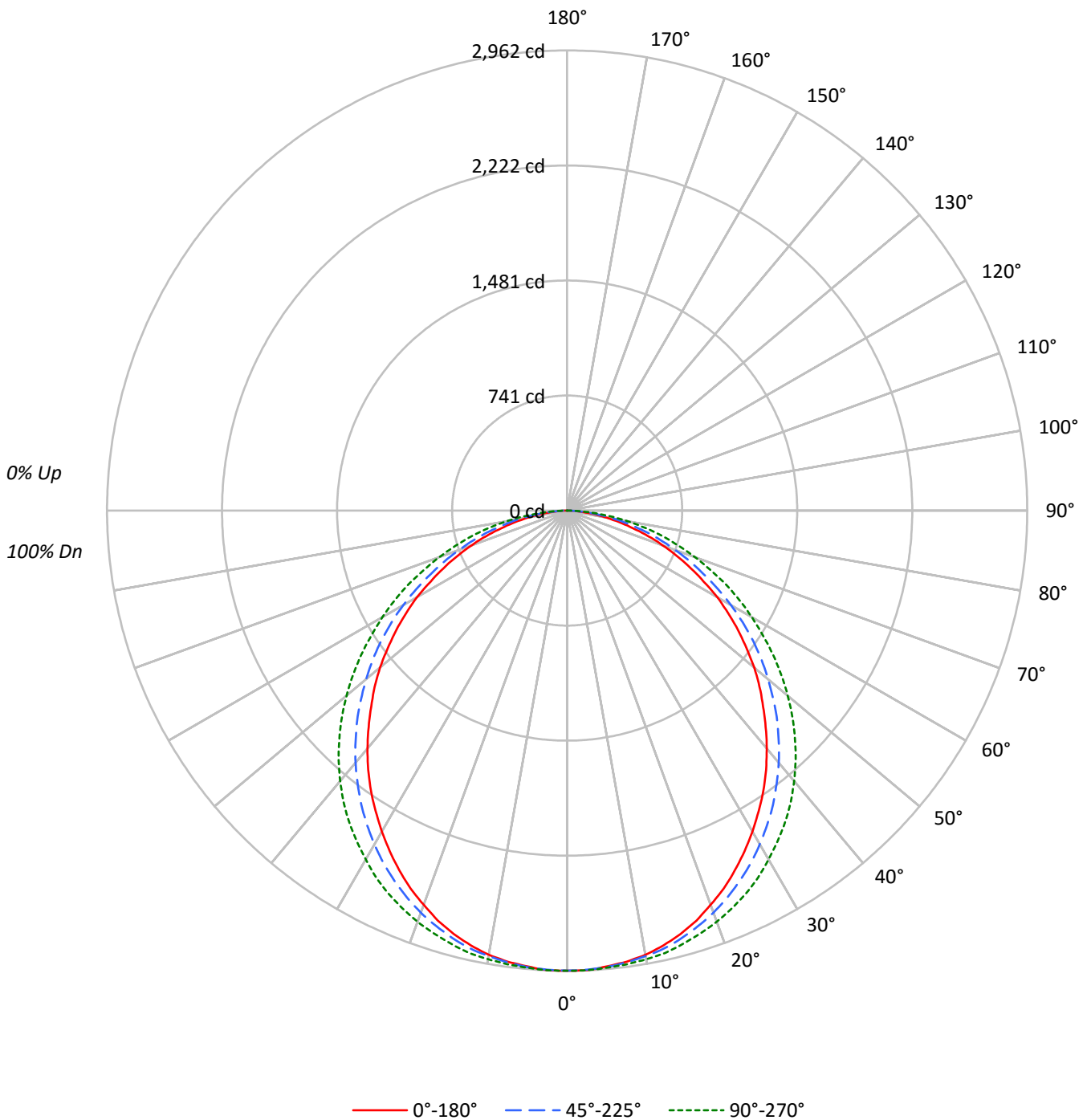
Lumens per Lamp: N/A
Luminaire Lumens: 8223.5 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	3985	3985	3985
5°	3978	3984	3989
10°	3967	3979	4007
15°	3929	3970	4022
20°	3867	3944	4033
25°	3794	3904	4040
30°	3706	3854	4028
35°	3618	3795	4020
40°	3512	3723	3993
45°	3394	3639	3947
50°	3291	3534	3881
55°	3153	3425	3795
60°	3003	3282	3695
65°	2800	3090	3592
70°	2578	2905	3443
75°	2286	2695	3300
80°	1929	2411	3054
85°	1409	1857	2433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	3.4
10°-20°	804.3	9.8
20°-30°	1213.1	14.8
30°-40°	1448.2	17.6
40°-50°	1480.2	18.0
50°-60°	1312.5	16.0
60°-70°	978.4	11.9
70°-80°	558.9	6.8
80°-90°	147.4	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°	2297.8	27.9
0°-40°	3746.0	45.6
0°-60°	6538.7	79.5
0°-90°	8223.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8223.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2962	2962	2962	2962	2962	
5°	2945	2945	2949	2949	2954	280
15°	2821	2829	2850	2875	2887	795
25°	2555	2576	2630	2688	2721	1177
35°	2203	2232	2310	2402	2447	1376
45°	1784	1821	1912	2016	2074	1378
55°	1344	1369	1460	1564	1618	1201
65°	879	900	971	1070	1128	872
75°	440	460	518	597	635	469
85°	91	95	120	149	158	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	2961.8	2957.7	2957.7	2957.7	2961.8
5°	2945.2	2945.2	2949.4	2949.4	2953.5
7.5°	2928.6	2928.6	2932.8	2936.9	2945.2
10°	2903.7	2903.7	2912.0	2924.5	2932.8
12.5°	2866.4	2870.6	2887.1	2903.7	2916.2
15°	2820.8	2829.1	2849.8	2874.7	2887.1
17.5°	2766.9	2775.1	2804.2	2837.4	2854.0
20°	2700.5	2717.1	2754.4	2795.9	2816.6
22.5°	2634.1	2650.7	2696.3	2746.1	2771.0
25°	2555.3	2576.0	2630.0	2688.0	2721.2
27.5°	2472.3	2497.2	2559.4	2625.8	2663.1
30°	2385.2	2414.3	2480.6	2555.3	2592.6
32.5°	2294.0	2323.0	2397.7	2480.6	2522.1
35°	2202.7	2231.7	2310.5	2401.8	2447.4
37.5°	2103.1	2132.2	2215.1	2314.7	2364.5
40°	1999.4	2032.6	2119.7	2219.3	2273.2
42.5°	1891.6	1928.9	2016.0	2123.9	2177.8
45°	1783.7	1821.1	1912.3	2016.0	2074.1
47.5°	1680.0	1709.1	1800.3	1908.2	1966.2
50°	1572.2	1597.1	1688.3	1796.2	1854.2
52.5°	1456.0	1489.2	1576.3	1684.2	1738.1
55°	1344.0	1368.9	1460.2	1563.9	1617.8
57.5°	1227.9	1252.8	1339.9	1443.6	1493.4
60°	1115.9	1140.8	1219.6	1323.3	1373.1
62.5°	991.4	1016.3	1095.1	1203.0	1252.8
65°	879.4	900.2	970.7	1070.2	1128.3
67.5°	767.4	788.2	854.5	949.9	995.6
70°	655.4	672.0	738.4	825.5	875.3
72.5°	547.6	564.2	630.5	709.3	750.8
75°	439.7	460.5	518.5	597.3	634.7
77.5°	340.2	360.9	410.7	481.2	514.4
80°	248.9	265.5	311.1	365.0	394.1
82.5°	165.9	178.4	211.6	257.2	277.9
85°	91.3	95.4	120.3	149.3	157.6
87.5°	37.3	37.3	45.6	49.8	53.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)