

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: METALUX

Report Number: P229845

Luminaire Tested: **24RLN-LD5-80-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7640.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

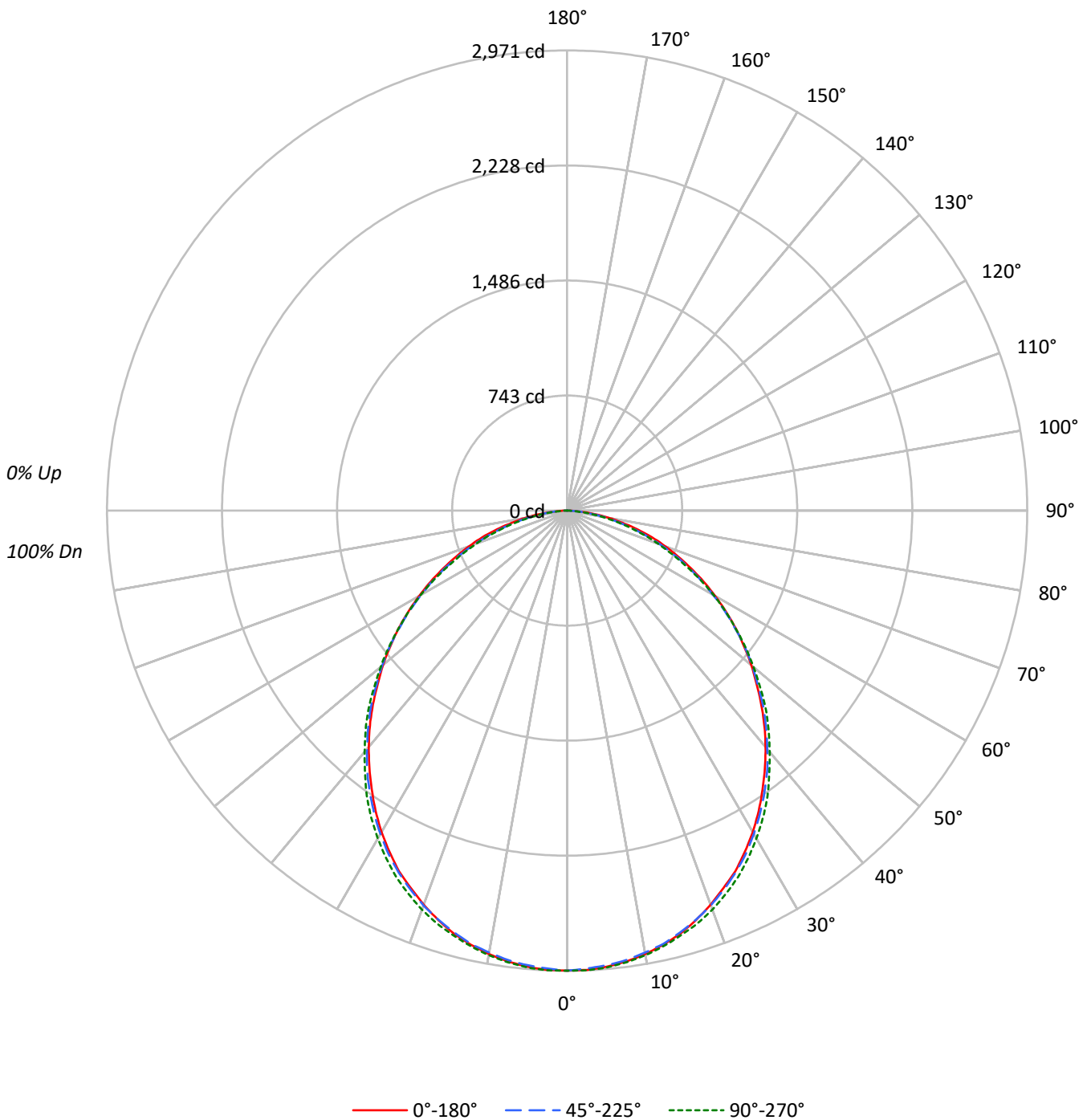
Input Watts (W): 67.45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4550	4550	4550
5°	4545	4530	4552
10°	4522	4507	4533
15°	4483	4471	4502
20°	4414	4422	4469
25°	4342	4354	4412
30°	4238	4264	4324
35°	4112	4153	4217
40°	3984	4018	4067
45°	3842	3879	3931
50°	3699	3716	3745
55°	3554	3534	3547
60°	3383	3331	3346
65°	3192	3121	3069
70°	3018	2854	2789
75°	2779	2534	2448
80°	2447	2146	2017
85°	1924	1497	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	3.7
10°-20°	797.2	10.4
20°-30°	1188.2	15.6
30°-40°	1389.1	18.2
40°-50°	1379.4	18.1
50°-60°	1184.6	15.5
60°-70°	853.3	11.2
70°-80°	459.5	6.0
80°-90°	108.3	1.4
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°	2265.8	29.7
0°-40°	3654.9	47.8
0°-60°	6218.9	81.4
0°-90°	7640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2971	2971	2971	2971	2971	
5°	2956	2954	2946	2956	2961	281
15°	2827	2820	2820	2837	2839	796
25°	2569	2559	2576	2603	2610	1181
35°	2199	2197	2221	2246	2255	1376
45°	1774	1769	1791	1805	1815	1368
55°	1331	1319	1324	1331	1328	1188
65°	881	866	861	854	847	875
75°	470	440	428	416	414	497
85°	110	100	85	68	63	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2970.6	2970.6	2970.6	2970.6	2970.6
2.5°	2968.1	2965.7	2958.4	2968.1	2970.6
5°	2956.0	2953.5	2946.3	2956.0	2960.8
7.5°	2936.5	2931.7	2926.8	2936.5	2941.4
10°	2907.3	2902.5	2897.6	2909.8	2914.6
12.5°	2870.8	2866.0	2866.0	2875.7	2880.6
15°	2827.0	2819.7	2819.7	2836.8	2839.2
17.5°	2771.1	2766.2	2768.6	2788.1	2795.4
20°	2707.8	2705.4	2712.7	2734.6	2741.9
22.5°	2637.3	2634.8	2647.0	2673.8	2678.6
25°	2569.2	2559.4	2576.4	2603.2	2610.5
27.5°	2484.0	2476.7	2498.6	2522.9	2530.2
30°	2396.4	2389.1	2411.0	2437.8	2445.1
32.5°	2301.5	2296.7	2318.6	2345.3	2352.6
35°	2199.3	2196.9	2221.2	2245.6	2255.3
37.5°	2097.2	2094.7	2121.5	2141.0	2143.4
40°	1992.6	1987.7	2009.6	2031.5	2033.9
42.5°	1885.5	1878.2	1902.5	1919.6	1926.9
45°	1773.6	1768.7	1790.6	1805.2	1814.9
47.5°	1659.2	1659.2	1671.4	1688.4	1690.9
50°	1552.2	1544.9	1559.5	1569.2	1571.7
52.5°	1440.3	1433.0	1445.1	1447.6	1452.4
55°	1330.8	1318.6	1323.5	1330.8	1328.4
57.5°	1216.5	1197.0	1206.7	1206.7	1211.6
60°	1104.5	1087.5	1087.5	1087.5	1092.4
62.5°	992.6	975.6	975.6	973.2	970.7
65°	880.7	866.1	861.2	854.0	846.7
67.5°	773.7	756.6	746.9	737.2	729.9
70°	673.9	644.7	637.4	622.8	622.8
72.5°	574.2	545.0	530.4	520.6	518.2
75°	469.6	440.4	428.2	416.0	413.6
77.5°	367.4	347.9	328.4	318.7	313.8
80°	277.4	260.3	243.3	226.3	228.7
82.5°	189.8	172.7	160.6	146.0	141.1
85°	109.5	99.7	85.2	68.1	63.3
87.5°	46.2	34.1	24.3	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)