

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: P295999

Luminaire Tested: **24RLN-LD5-80-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-UNV-L93050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6854.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

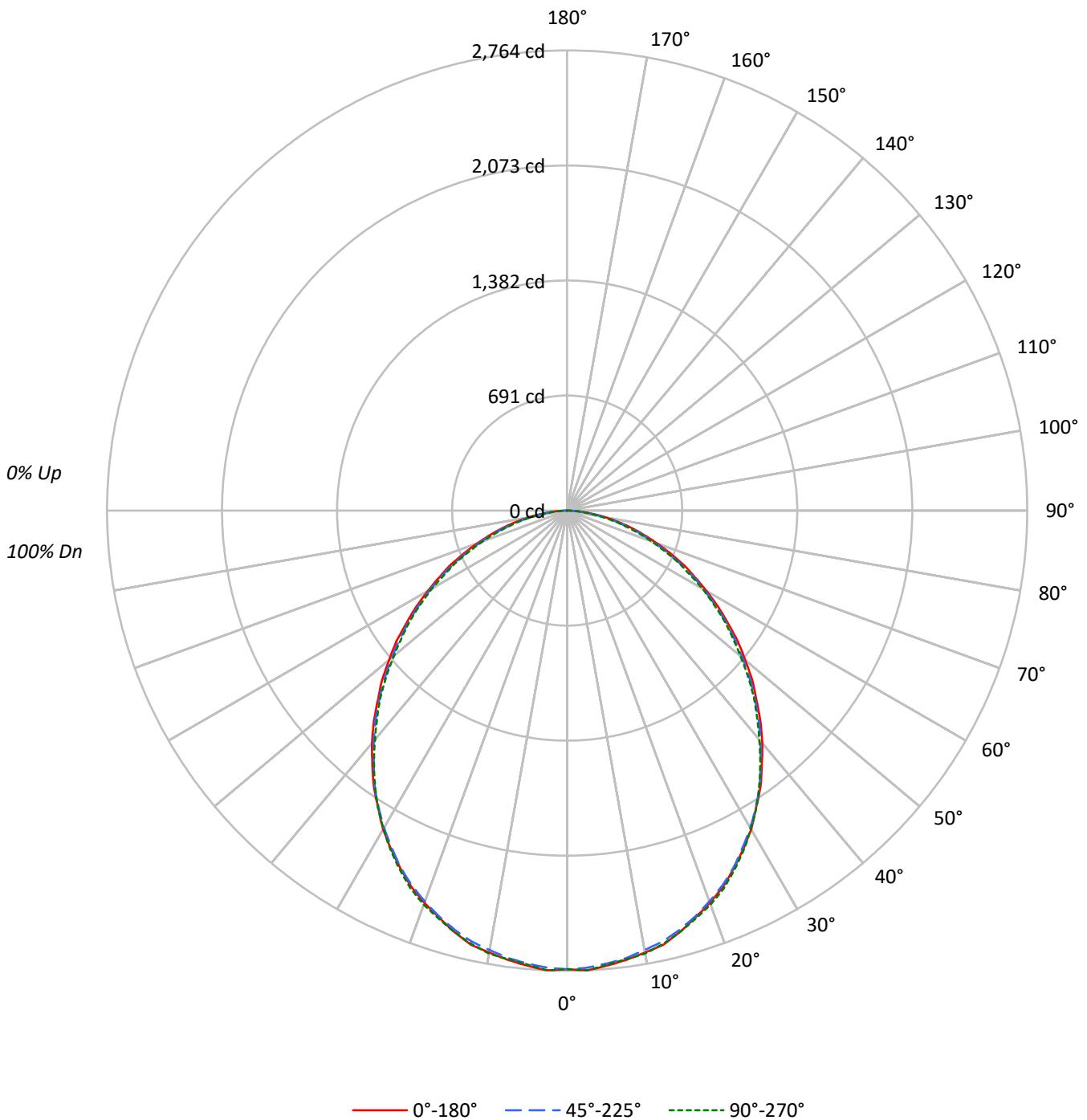
Input Watts (W): 61.845
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3707	3707	3707
5°	3706	3688	3697
10°	3683	3661	3692
15°	3650	3631	3650
20°	3590	3578	3606
25°	3519	3512	3532
30°	3435	3418	3428
35°	3327	3312	3305
40°	3204	3173	3154
45°	3059	3029	3017
50°	2920	2874	2842
55°	2765	2723	2697
60°	2600	2553	2523
65°	2457	2365	2344
70°	2253	2166	2122
75°	2069	1943	1862
80°	1816	1696	1593
85°	1468	1365	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.0	3.8
10°-20°	737.0	10.8
20°-30°	1090.1	15.9
30°-40°	1258.1	18.4
40°-50°	1228.8	17.9
50°-60°	1037.6	15.1
60°-70°	739.1	10.8
70°-80°	400.2	5.8
80°-90°	103.3	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°	2087.0	30.4
0°-40°	3345.1	48.8
0°-60°	5611.5	81.9
0°-90°	6854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2755	2755	2755	2755	2755	
5°	2744	2744	2731	2737	2737	260
15°	2620	2609	2607	2618	2620	738
25°	2370	2357	2366	2375	2379	1091
35°	2025	2010	2017	2010	2012	1264
45°	1608	1594	1592	1585	1585	1243
55°	1179	1163	1161	1150	1150	1057
65°	772	756	743	734	736	761
75°	398	385	374	365	358	421
85°	95	93	88	77	75	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2755.1	2755.1	2755.1	2755.1	2755.1
2.5°	2764.0	2752.9	2748.5	2750.7	2764.0
5°	2744.1	2744.1	2730.8	2737.4	2737.4
7.5°	2721.9	2724.2	2710.9	2721.9	2717.5
10°	2695.4	2688.8	2679.9	2697.6	2702.0
12.5°	2671.1	2655.6	2651.2	2662.2	2664.5
15°	2620.2	2609.2	2607.0	2618.0	2620.2
17.5°	2562.7	2565.0	2556.1	2571.6	2569.4
20°	2507.5	2503.0	2498.6	2516.3	2518.5
22.5°	2445.5	2432.3	2436.7	2452.2	2456.6
25°	2370.4	2357.1	2365.9	2374.8	2379.2
27.5°	2290.8	2284.1	2281.9	2293.0	2297.4
30°	2211.2	2200.1	2200.1	2213.4	2206.7
32.5°	2113.9	2105.0	2109.5	2113.9	2116.1
35°	2025.4	2009.9	2016.6	2009.9	2012.2
37.5°	1921.5	1910.4	1908.2	1906.0	1906.0
40°	1824.2	1815.4	1806.5	1806.5	1795.5
42.5°	1718.1	1707.0	1702.6	1696.0	1689.3
45°	1607.5	1594.3	1592.0	1585.4	1585.4
47.5°	1508.0	1488.1	1485.9	1472.6	1472.6
50°	1395.2	1382.0	1373.1	1364.3	1357.7
52.5°	1293.5	1280.3	1267.0	1258.2	1251.5
55°	1178.6	1163.1	1160.9	1149.8	1149.8
57.5°	1074.6	1061.4	1052.5	1039.2	1041.5
60°	966.3	953.0	948.6	937.5	937.5
62.5°	864.6	853.5	846.9	835.8	827.0
65°	771.7	756.2	743.0	734.1	736.3
67.5°	670.0	652.3	645.7	636.8	630.2
70°	572.7	561.6	550.6	539.5	539.5
72.5°	482.0	471.0	464.3	451.1	446.7
75°	398.0	384.7	373.7	364.8	358.2
77.5°	314.0	300.7	294.1	283.0	283.0
80°	234.4	225.5	218.9	214.5	205.6
82.5°	161.4	157.0	150.4	143.7	137.1
85°	95.1	92.9	88.4	77.4	75.2
87.5°	37.6	37.6	33.2	31.0	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)