

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: P296091

Luminaire Tested: **24RLN-LD5-80-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296091
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-L92765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7601.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

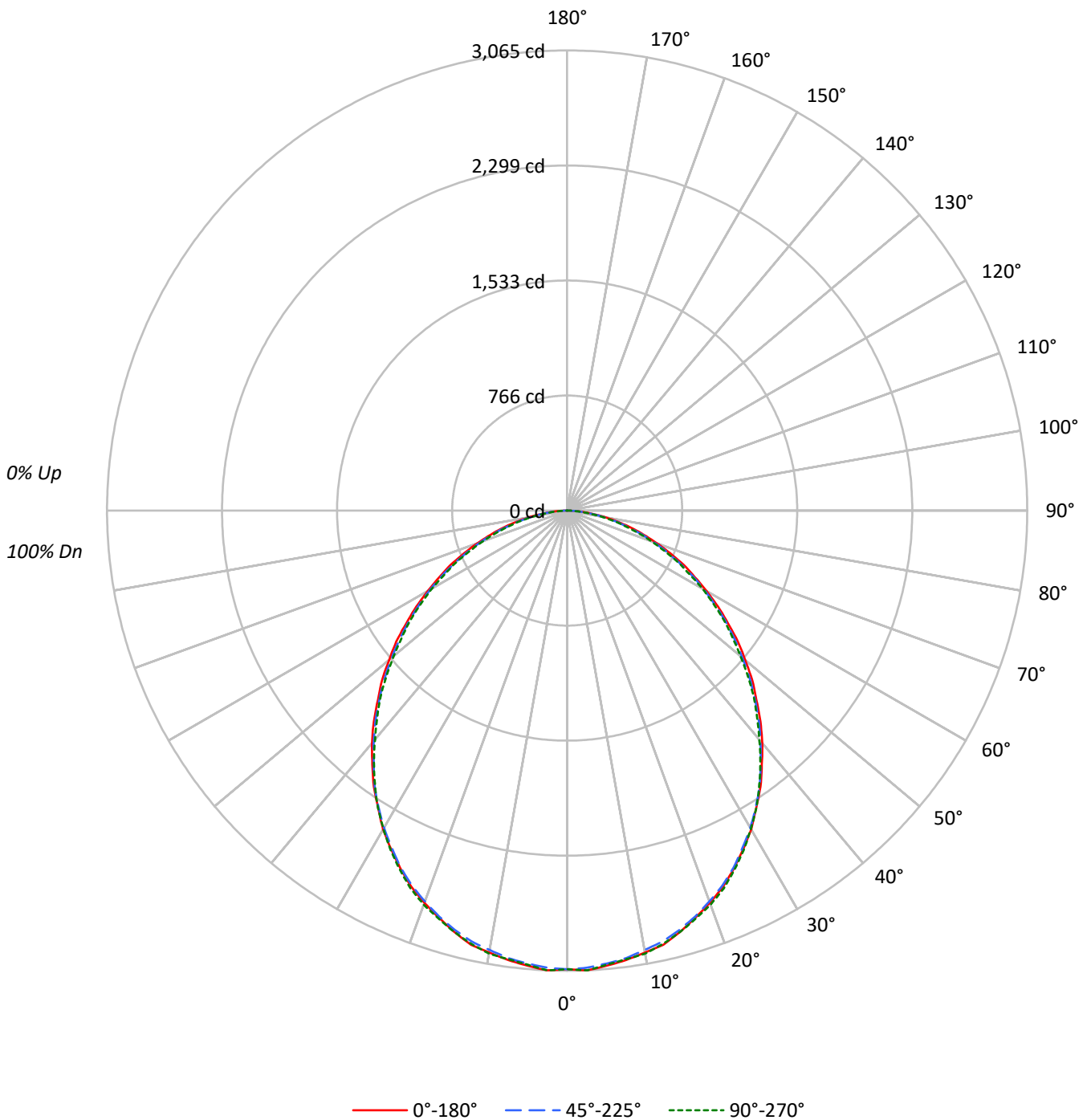
Input Watts (W): 62.589
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4111	4111	4111
5°	4110	4090	4100
10°	4084	4060	4094
15°	4048	4027	4048
20°	3982	3967	3999
25°	3903	3895	3917
30°	3810	3791	3802
35°	3689	3673	3665
40°	3553	3519	3497
45°	3392	3360	3346
50°	3239	3188	3152
55°	3066	3020	2991
60°	2884	2831	2798
65°	2725	2623	2600
70°	2498	2402	2354
75°	2295	2154	2065
80°	2014	1881	1767
85°	1627	1514	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.3	3.8
10°-20°	817.3	10.8
20°-30°	1208.9	15.9
30°-40°	1395.2	18.4
40°-50°	1362.7	17.9
50°-60°	1150.7	15.1
60°-70°	819.6	10.8
70°-80°	443.8	5.8
80°-90°	114.5	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°	2314.5	30.4
0°-40°	3709.7	48.8
0°-60°	6223.1	81.9
0°-90°	7601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3055	3055	3055	3055	3055	
5°	3043	3043	3028	3036	3036	289
15°	2906	2894	2891	2903	2906	819
25°	2629	2614	2624	2634	2638	1210
35°	2246	2229	2236	2229	2232	1402
45°	1783	1768	1766	1758	1758	1378
55°	1307	1290	1287	1275	1275	1172
65°	856	839	824	814	817	844
75°	441	427	414	405	397	467
85°	105	103	98	86	83	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3055.4	3055.4	3055.4	3055.4	3055.4
2.5°	3065.2	3052.9	3048.0	3050.5	3065.2
5°	3043.1	3043.1	3028.4	3035.8	3035.8
7.5°	3018.6	3021.1	3006.3	3018.6	3013.7
10°	2989.2	2981.8	2972.0	2991.6	2996.5
12.5°	2962.2	2945.0	2940.1	2952.4	2954.8
15°	2905.8	2893.5	2891.1	2903.4	2905.8
17.5°	2842.0	2844.5	2834.7	2851.9	2849.4
20°	2780.7	2775.8	2770.9	2790.6	2793.0
22.5°	2712.1	2697.4	2702.3	2719.4	2724.3
25°	2628.7	2614.0	2623.8	2633.6	2638.5
27.5°	2540.4	2533.1	2530.6	2542.9	2547.8
30°	2452.2	2439.9	2439.9	2454.6	2447.3
32.5°	2344.3	2334.5	2339.4	2344.3	2346.7
35°	2246.2	2229.0	2236.4	2229.0	2231.5
37.5°	2130.9	2118.7	2116.2	2113.8	2113.8
40°	2023.0	2013.2	2003.4	2003.4	1991.2
42.5°	1905.3	1893.1	1888.2	1880.8	1873.4
45°	1782.7	1768.0	1765.6	1758.2	1758.2
47.5°	1672.4	1650.3	1647.8	1633.1	1633.1
50°	1547.3	1532.6	1522.8	1513.0	1505.6
52.5°	1434.5	1419.8	1405.1	1395.3	1387.9
55°	1307.0	1289.8	1287.4	1275.1	1275.1
57.5°	1191.7	1177.0	1167.2	1152.5	1155.0
60°	1071.6	1056.9	1052.0	1039.7	1039.7
62.5°	958.8	946.5	939.2	926.9	917.1
65°	855.8	838.6	823.9	814.1	816.6
67.5°	743.0	723.4	716.0	706.2	698.9
70°	635.1	622.8	610.6	598.3	598.3
72.5°	534.6	522.3	515.0	500.2	495.3
75°	441.4	426.7	414.4	404.6	397.2
77.5°	348.2	333.5	326.1	313.9	313.9
80°	259.9	250.1	242.8	237.9	228.1
82.5°	179.0	174.1	166.7	159.4	152.0
85°	105.4	103.0	98.1	85.8	83.4
87.5°	41.7	41.7	36.8	34.3	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)