

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: P296089

Luminaire Tested: **24RLN-LD5-80-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296089
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-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7453.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

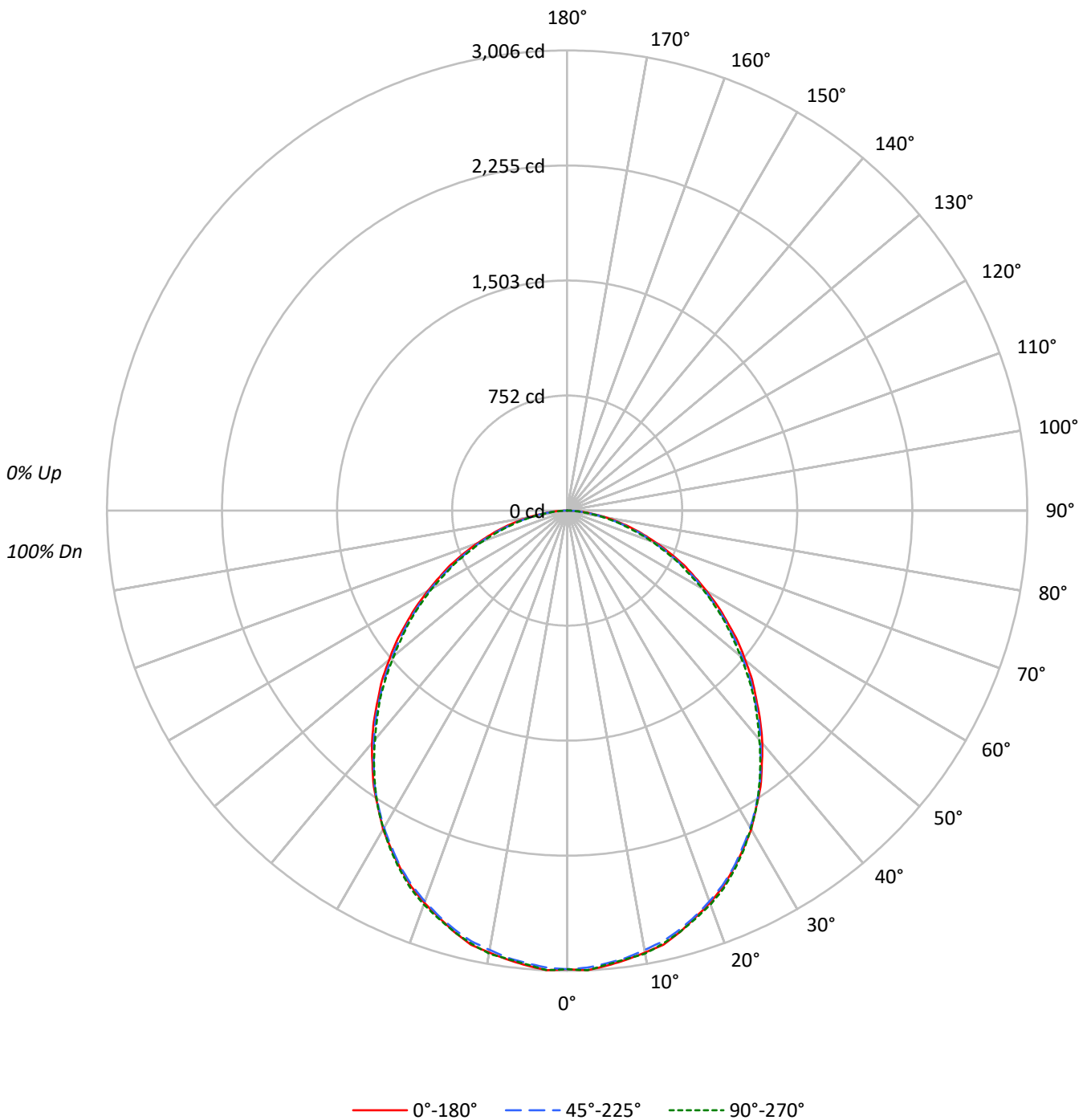
Input Watts (W): 62.124
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4031	4031	4031
5°	4030	4011	4020
10°	4004	3981	4014
15°	3969	3949	3969
20°	3904	3890	3921
25°	3827	3819	3841
30°	3736	3717	3728
35°	3618	3602	3594
40°	3484	3450	3429
45°	3326	3294	3280
50°	3176	3125	3090
55°	3006	2961	2933
60°	2827	2776	2743
65°	2671	2572	2549
70°	2450	2355	2308
75°	2250	2112	2025
80°	1975	1844	1733
85°	1596	1485	1261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.7	3.8
10°-20°	801.4	10.8
20°-30°	1185.4	15.9
30°-40°	1368.0	18.4
40°-50°	1336.2	17.9
50°-60°	1128.3	15.1
60°-70°	803.7	10.8
70°-80°	435.1	5.8
80°-90°	112.3	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°	2269.4	30.4
0°-40°	3637.5	48.8
0°-60°	6101.9	81.9
0°-90°	7453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2996	2996	2996	2996	2996	
5°	2984	2984	2969	2977	2977	283
15°	2849	2837	2835	2847	2849	803
25°	2578	2563	2573	2582	2587	1187
35°	2202	2186	2193	2186	2188	1374
45°	1748	1734	1731	1724	1724	1352
55°	1282	1265	1262	1250	1250	1149
65°	839	822	808	798	801	827
75°	433	418	406	397	390	458
85°	103	101	96	84	82	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2995.9	2995.9	2995.9	2995.9	2995.9
2.5°	3005.5	2993.5	2988.7	2991.1	3005.5
5°	2983.9	2983.9	2969.4	2976.7	2976.7
7.5°	2959.8	2962.2	2947.8	2959.8	2955.0
10°	2931.0	2923.8	2914.1	2933.4	2938.2
12.5°	2904.5	2887.7	2882.9	2894.9	2897.3
15°	2849.2	2837.2	2834.8	2846.8	2849.2
17.5°	2786.7	2789.1	2779.5	2796.3	2793.9
20°	2726.6	2721.8	2717.0	2736.2	2738.6
22.5°	2659.3	2644.9	2649.7	2666.5	2671.3
25°	2577.5	2563.1	2572.7	2582.3	2587.1
27.5°	2491.0	2483.8	2481.4	2493.4	2498.2
30°	2404.4	2392.4	2392.4	2406.8	2399.6
32.5°	2298.6	2289.0	2293.8	2298.6	2301.0
35°	2202.4	2185.6	2192.8	2185.6	2188.0
37.5°	2089.4	2077.4	2075.0	2072.6	2072.6
40°	1983.6	1974.0	1964.4	1964.4	1952.4
42.5°	1868.2	1856.2	1851.4	1844.2	1837.0
45°	1748.0	1733.6	1731.2	1724.0	1724.0
47.5°	1639.8	1618.2	1615.8	1601.3	1601.3
50°	1517.2	1502.8	1493.1	1483.5	1476.3
52.5°	1406.6	1392.2	1377.7	1368.1	1360.9
55°	1281.6	1264.7	1262.3	1250.3	1250.3
57.5°	1168.5	1154.1	1144.5	1130.1	1132.5
60°	1050.7	1036.3	1031.5	1019.5	1019.5
62.5°	940.1	928.1	920.9	908.9	899.2
65°	839.1	822.3	807.9	798.3	800.7
67.5°	728.5	709.3	702.1	692.5	685.3
70°	622.7	610.7	598.7	586.7	586.7
72.5°	524.2	512.1	504.9	490.5	485.7
75°	432.8	418.4	406.3	396.7	389.5
77.5°	341.4	327.0	319.8	307.8	307.8
80°	254.9	245.2	238.0	233.2	223.6
82.5°	175.5	170.7	163.5	156.3	149.1
85°	103.4	101.0	96.2	84.2	81.7
87.5°	40.9	40.9	36.1	33.7	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)