

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: P293907

Luminaire Tested: **24GR-LD5-72-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-A125-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6875.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

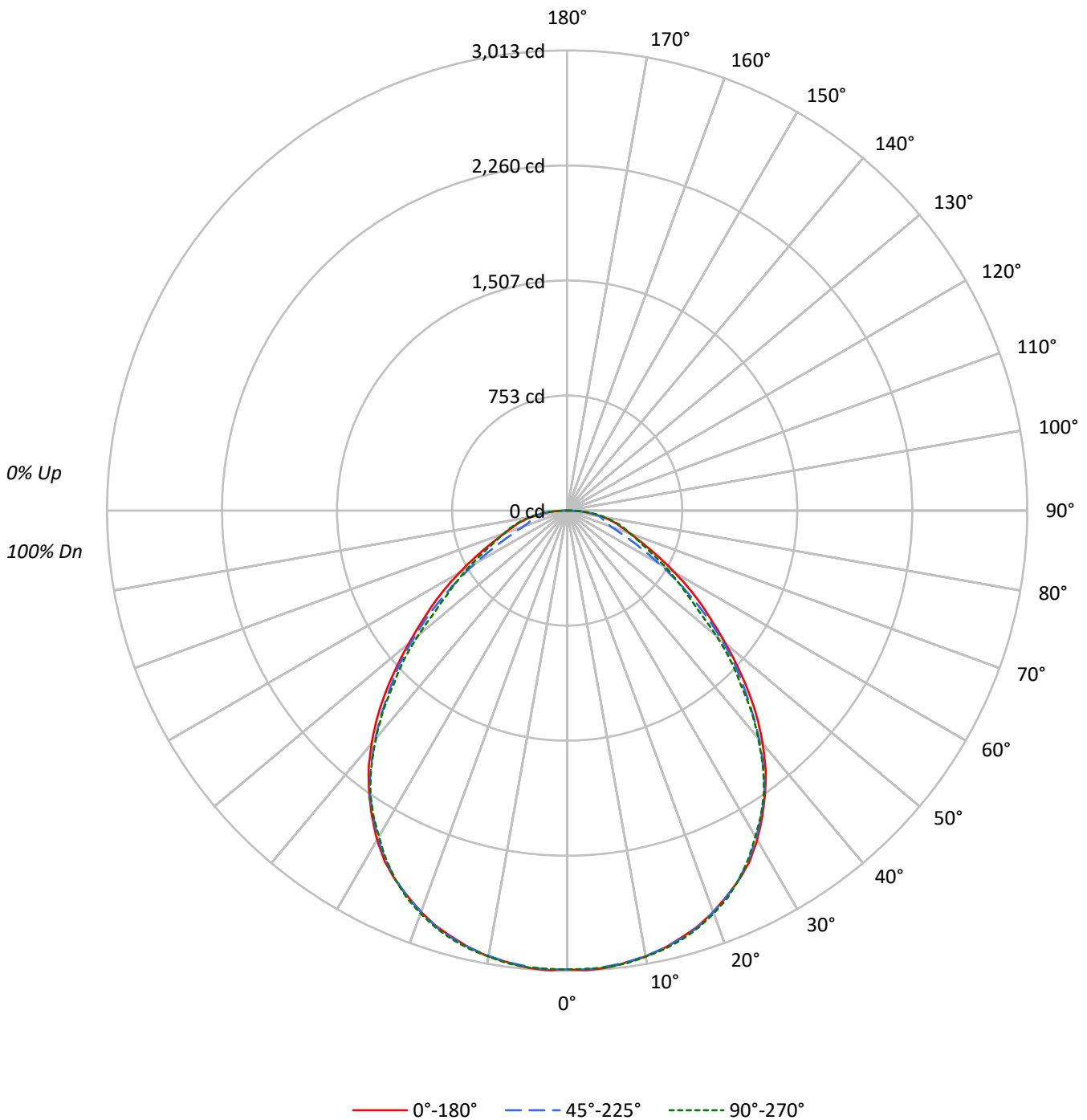
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4042	4042	4042
5°	4056	4047	4055
10°	4050	4044	4052
15°	4031	4038	4049
20°	4004	4004	4019
25°	3958	3950	3954
30°	3866	3846	3828
35°	3714	3703	3689
40°	3498	3434	3419
45°	3200	3112	3055
50°	2829	2773	2665
55°	2516	2345	2254
60°	2190	1876	2012
65°	1892	1455	1779
70°	1726	1190	1721
75°	1739	1282	1829
80°	1812	1671	1928
85°	1888	1987	2137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.0	4.1
10°-20°	817.3	11.9
20°-30°	1223.4	17.8
30°-40°	1397.9	20.3
40°-50°	1263.9	18.4
50°-60°	909.3	13.2
60°-70°	527.1	7.7
70°-80°	312.7	4.5
80°-90°	138.5	2.0
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°	2325.6	33.8
0°-40°	3723.6	54.2
0°-60°	5896.7	85.8
0°-90°	6875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3004	3004	3004	3004	3004	
5°	3003	2999	2997	2992	3002	285
15°	2894	2899	2899	2896	2906	817
25°	2666	2663	2661	2656	2663	1226
35°	2261	2250	2254	2227	2246	1409
45°	1682	1653	1636	1621	1606	1292
55°	1072	1052	1000	974	961	959
65°	594	528	457	510	559	600
75°	335	280	247	305	352	354
85°	122	132	129	148	138	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3004.1	3004.1	3004.1	3004.1	3004.1
2.5°	3012.7	3002.0	3007.4	3004.1	3003.1
5°	3003.1	2998.8	2996.6	2992.3	3002.0
7.5°	2983.8	2980.5	2981.6	2982.7	2989.1
10°	2964.5	2959.1	2960.2	2962.3	2965.5
12.5°	2934.4	2931.2	2932.3	2934.4	2941.9
15°	2893.7	2899.0	2899.0	2895.8	2906.5
17.5°	2852.9	2851.8	2857.2	2847.5	2862.6
20°	2796.1	2797.1	2796.1	2797.1	2806.8
22.5°	2731.7	2737.1	2733.9	2733.9	2744.6
25°	2666.3	2663.1	2660.9	2655.6	2663.1
27.5°	2588.0	2581.6	2576.2	2565.5	2570.8
30°	2488.3	2489.3	2475.4	2465.7	2463.6
32.5°	2376.7	2376.7	2363.8	2356.3	2362.8
35°	2260.9	2250.2	2254.4	2226.6	2245.9
37.5°	2135.4	2118.2	2108.6	2098.9	2105.4
40°	1991.7	1969.2	1955.2	1935.9	1946.6
42.5°	1840.4	1812.6	1795.4	1781.5	1785.8
45°	1681.7	1652.8	1635.6	1620.6	1605.6
47.5°	1514.4	1496.2	1487.6	1468.3	1451.1
50°	1351.4	1344.9	1324.6	1308.5	1273.1
52.5°	1202.3	1196.9	1164.8	1137.9	1092.9
55°	1072.5	1052.1	999.6	973.9	961.0
57.5°	940.6	907.4	844.1	840.9	849.4
60°	814.0	773.3	697.1	714.3	747.5
62.5°	699.3	638.2	565.2	606.0	645.7
65°	594.2	527.7	456.9	510.5	558.8
67.5°	507.3	440.8	367.9	439.7	495.5
70°	438.7	371.1	302.5	385.0	437.6
72.5°	381.8	320.7	263.8	342.1	396.8
75°	334.6	279.9	246.7	304.6	351.8
77.5°	287.4	243.5	236.0	271.3	300.3
80°	233.8	213.4	215.6	238.1	248.8
82.5°	174.8	175.9	181.3	199.5	195.2
85°	122.3	131.9	128.7	148.0	138.4
87.5°	67.6	74.0	69.7	84.7	76.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)