

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: P293775

Luminaire Tested: **24GR-LD5-72-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293775
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-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7075.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

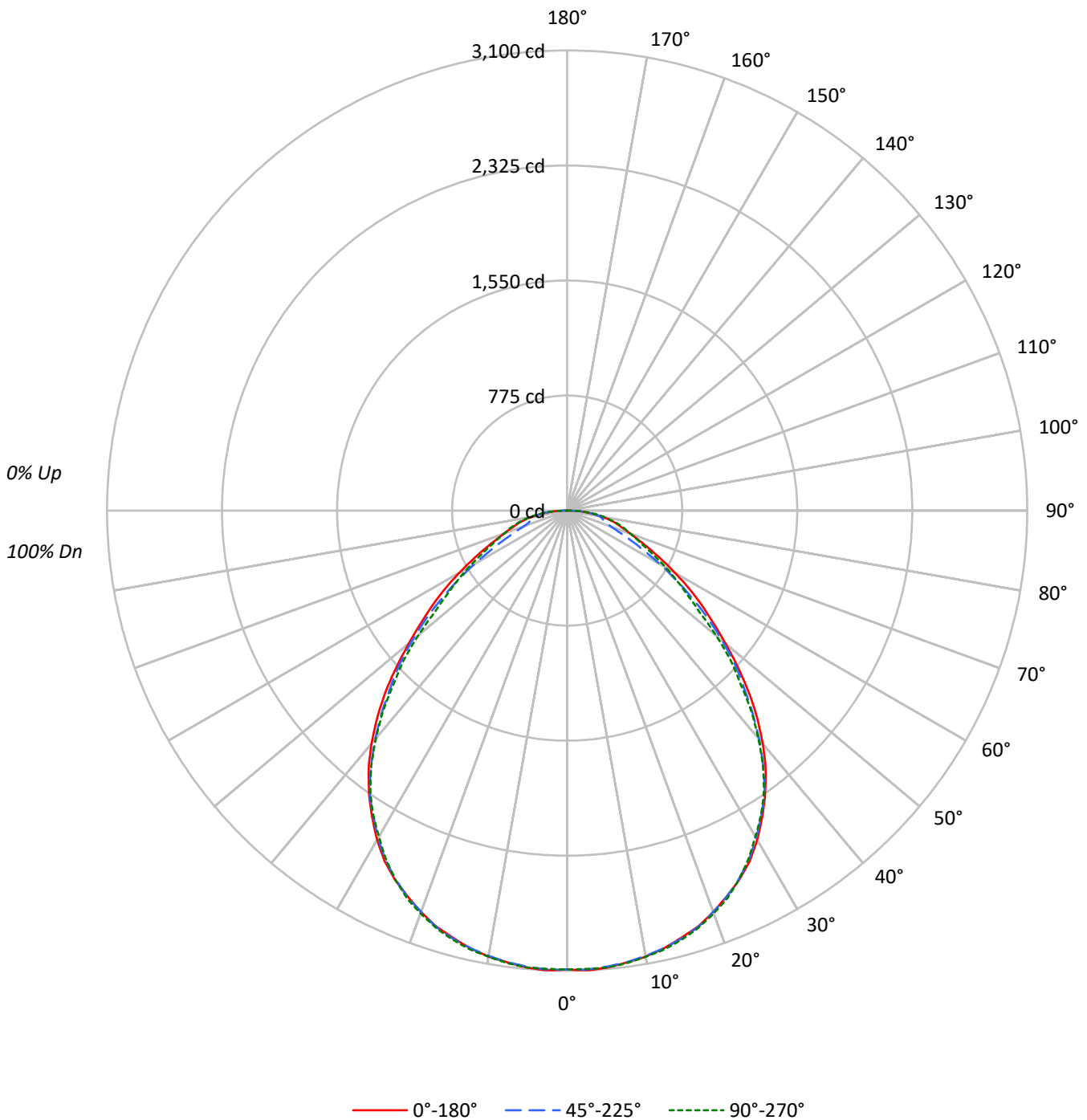
Input Watts (W): 52.824
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4160	4160	4160
5°	4174	4165	4172
10°	4168	4162	4170
15°	4148	4156	4166
20°	4120	4120	4136
25°	4074	4065	4069
30°	3978	3958	3939
35°	3822	3811	3796
40°	3600	3534	3519
45°	3293	3203	3144
50°	2911	2853	2742
55°	2589	2413	2320
60°	2254	1931	2070
65°	1947	1497	1831
70°	1776	1224	1771
75°	1790	1320	1882
80°	1864	1719	1984
85°	1942	2044	2198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.3	4.1
10°-20°	841.1	11.9
20°-30°	1259.0	17.8
30°-40°	1438.6	20.3
40°-50°	1300.6	18.4
50°-60°	935.7	13.2
60°-70°	542.5	7.7
70°-80°	321.8	4.5
80°-90°	142.5	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°	2393.3	33.8
0°-40°	3831.9	54.2
0°-60°	6068.2	85.8
0°-90°	7075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3092	3092	3092	3092	3092	
5°	3090	3086	3084	3079	3089	294
15°	2978	2983	2983	2980	2991	841
25°	2744	2740	2738	2733	2740	1261
35°	2327	2316	2320	2291	2311	1450
45°	1731	1701	1683	1668	1652	1330
55°	1104	1083	1029	1002	989	987
65°	612	543	470	525	575	617
75°	344	288	254	314	362	364
85°	126	136	132	152	142	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3091.5	3091.5	3091.5	3091.5	3091.5
2.5°	3100.4	3089.3	3094.8	3091.5	3090.4
5°	3090.4	3086.0	3083.8	3079.4	3089.3
7.5°	3070.6	3067.2	3068.4	3069.5	3076.1
10°	3050.7	3045.2	3046.3	3048.5	3051.8
12.5°	3019.8	3016.5	3017.6	3019.8	3027.5
15°	2977.8	2983.4	2983.4	2980.1	2991.1
17.5°	2935.9	2934.8	2940.3	2930.4	2945.8
20°	2877.4	2878.5	2877.4	2878.5	2888.4
22.5°	2811.2	2816.7	2813.4	2813.4	2824.4
25°	2743.9	2740.5	2738.3	2732.8	2740.5
27.5°	2663.3	2656.7	2651.1	2640.1	2645.6
30°	2560.6	2561.7	2547.4	2537.5	2535.3
32.5°	2445.9	2445.9	2432.6	2424.9	2431.5
35°	2326.6	2315.6	2320.0	2291.3	2311.2
37.5°	2197.5	2179.9	2169.9	2160.0	2166.6
40°	2049.6	2026.4	2012.1	1992.2	2003.3
42.5°	1894.0	1865.3	1847.6	1833.3	1837.7
45°	1730.6	1700.8	1683.2	1667.7	1652.3
47.5°	1558.5	1539.7	1530.9	1511.0	1493.3
50°	1390.7	1384.1	1363.1	1346.5	1310.1
52.5°	1237.3	1231.8	1198.6	1171.1	1124.7
55°	1103.7	1082.8	1028.7	1002.2	988.9
57.5°	968.0	933.7	868.6	865.3	874.1
60°	837.7	795.8	717.4	735.1	769.3
62.5°	719.6	656.7	581.7	623.6	664.4
65°	611.5	543.0	470.2	525.4	575.0
67.5°	522.1	453.6	378.6	452.5	509.9
70°	451.4	381.9	311.2	396.2	450.3
72.5°	392.9	330.0	271.5	352.1	408.4
75°	344.4	288.1	253.9	313.5	362.0
77.5°	295.8	250.5	242.8	279.2	309.0
80°	240.6	219.6	221.8	245.0	256.1
82.5°	179.9	181.0	186.5	205.3	200.9
85°	125.8	135.8	132.4	152.3	142.4
87.5°	69.5	76.2	71.7	87.2	78.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)