

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: P293781

Luminaire Tested: **24GR-LD5-72-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293781
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7571.0 lumens
Efficiency: N/A
Efficacy: 138.0 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

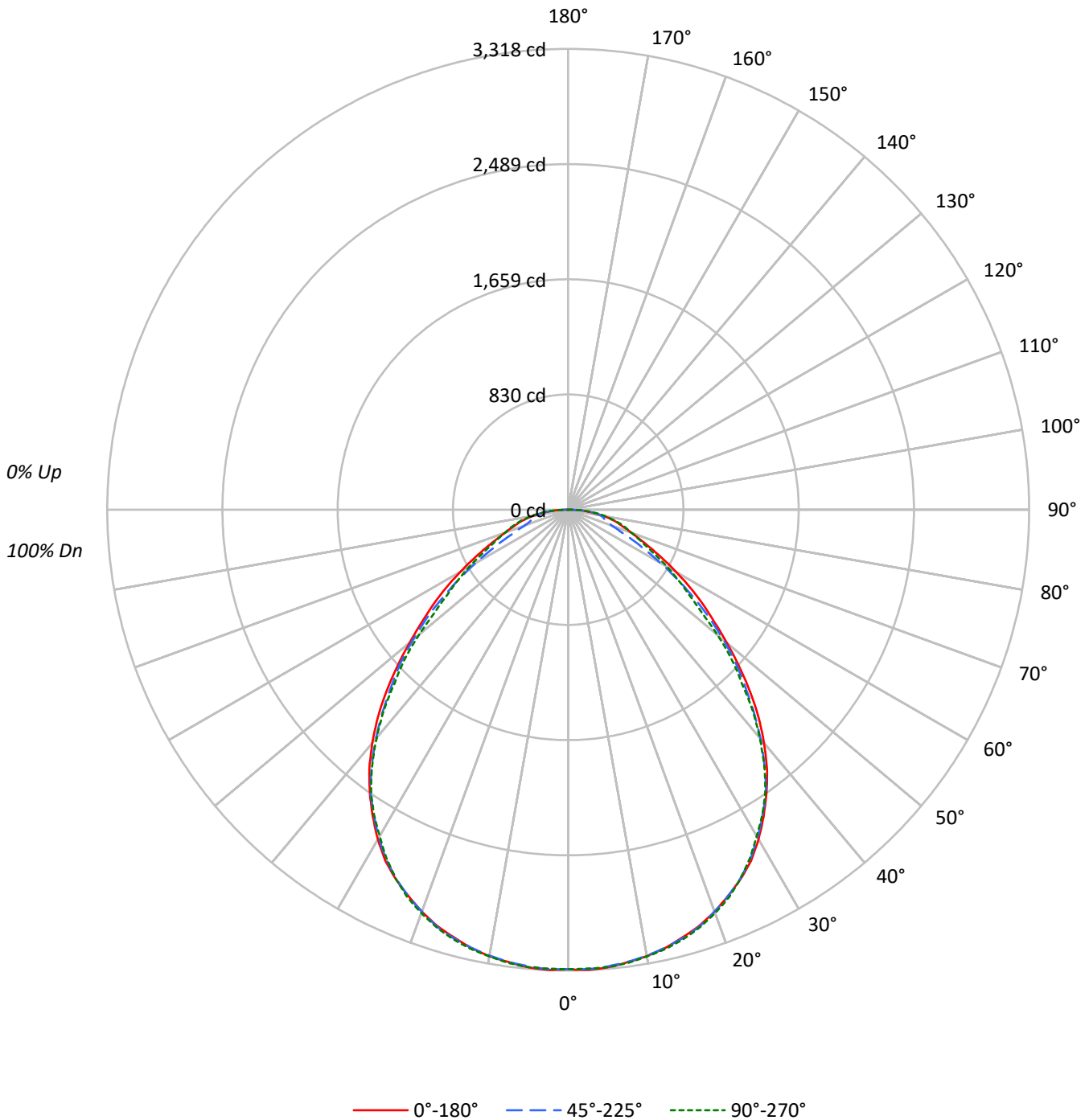
Input Watts (W): 54.87
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4451	4451	4451
5°	4467	4457	4465
10°	4460	4454	4462
15°	4439	4447	4459
20°	4409	4409	4426
25°	4359	4350	4354
30°	4257	4235	4215
35°	4090	4078	4062
40°	3852	3782	3765
45°	3524	3427	3364
50°	3115	3053	2935
55°	2771	2582	2483
60°	2412	2066	2215
65°	2083	1602	1959
70°	1900	1310	1896
75°	1916	1412	2014
80°	1995	1839	2123
85°	2078	2188	2353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.8	4.1
10°-20°	900.0	11.9
20°-30°	1347.2	17.8
30°-40°	1539.4	20.3
40°-50°	1391.8	18.4
50°-60°	1001.3	13.2
60°-70°	580.5	7.7
70°-80°	344.4	4.5
80°-90°	152.5	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°	2561.1	33.8
0°-40°	4100.5	54.2
0°-60°	6493.6	85.8
0°-90°	7571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3308	3308	3308	3308	3308	
5°	3307	3302	3300	3295	3306	314
15°	3187	3192	3192	3189	3201	900
25°	2936	2933	2930	2924	2933	1350
35°	2490	2478	2483	2452	2473	1552
45°	1852	1820	1801	1785	1768	1423
55°	1181	1159	1101	1072	1058	1057
65°	654	581	503	562	615	661
75°	368	308	272	335	387	389
85°	135	145	142	163	152	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3308.3	3308.3	3308.3	3308.3	3308.3
2.5°	3317.7	3305.9	3311.8	3308.3	3307.1
5°	3307.1	3302.4	3300.0	3295.3	3305.9
7.5°	3285.8	3282.3	3283.5	3284.6	3291.7
10°	3264.6	3258.7	3259.8	3262.2	3265.7
12.5°	3231.5	3227.9	3229.1	3231.5	3239.8
15°	3186.6	3192.5	3192.5	3189.0	3200.8
17.5°	3141.7	3140.5	3146.5	3135.8	3152.4
20°	3079.1	3080.3	3079.1	3080.3	3090.9
22.5°	3008.3	3014.2	3010.6	3010.6	3022.4
25°	2936.2	2932.7	2930.3	2924.4	2932.7
27.5°	2850.0	2842.9	2837.0	2825.2	2831.1
30°	2740.2	2741.3	2726.0	2715.4	2713.0
32.5°	2617.3	2617.3	2603.1	2594.9	2602.0
35°	2489.8	2477.9	2482.7	2452.0	2473.2
37.5°	2351.6	2332.7	2322.0	2311.4	2318.5
40°	2193.3	2168.5	2153.1	2131.9	2143.7
42.5°	2026.8	1996.1	1977.2	1961.8	1966.5
45°	1852.0	1820.1	1801.2	1784.6	1768.1
47.5°	1667.7	1647.6	1638.2	1616.9	1598.0
50°	1488.2	1481.1	1458.7	1440.9	1402.0
52.5°	1324.0	1318.1	1282.7	1253.1	1203.5
55°	1181.1	1158.7	1100.8	1072.4	1058.3
57.5°	1035.8	999.2	929.5	926.0	935.4
60°	896.5	851.6	767.7	786.6	823.2
62.5°	770.1	702.8	622.4	667.3	711.0
65°	654.3	581.1	503.1	562.2	615.4
67.5°	558.7	485.4	405.1	484.3	545.7
70°	483.1	408.7	333.1	424.0	481.9
72.5°	420.5	353.1	290.6	376.8	437.0
75°	368.5	308.3	271.7	335.4	387.4
77.5°	316.5	268.1	259.8	298.8	330.7
80°	257.5	235.0	237.4	262.2	274.0
82.5°	192.5	193.7	199.6	219.7	215.0
85°	134.6	145.3	141.7	163.0	152.4
87.5°	74.4	81.5	76.8	93.3	83.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)