

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: P293913

Luminaire Tested: **24GR-LD5-85-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293913
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-LD5-85-A125-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7677.0 lumens
Efficiency: N/A
Efficacy: 120.2 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

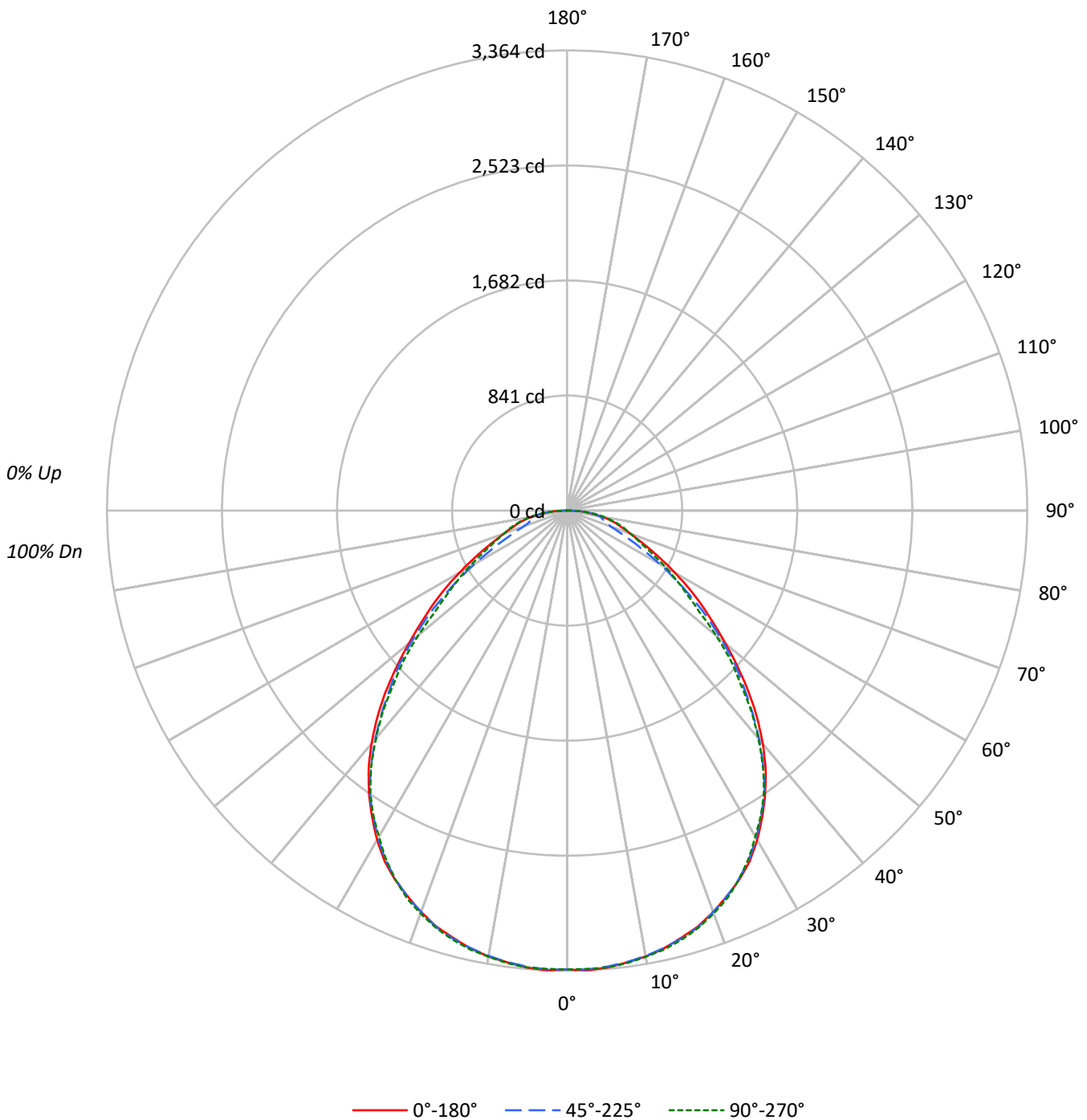
Input Watts (W): 63.891
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4514	4514	4514
5°	4529	4519	4528
10°	4523	4516	4524
15°	4501	4509	4521
20°	4470	4470	4488
25°	4420	4411	4415
30°	4317	4294	4274
35°	4147	4135	4119
40°	3906	3835	3818
45°	3573	3475	3412
50°	3159	3096	2976
55°	2809	2618	2517
60°	2446	2095	2246
65°	2112	1624	1987
70°	1927	1328	1922
75°	1943	1432	2042
80°	2023	1865	2153
85°	2107	2218	2385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.2	4.1
10°-20°	912.6	11.9
20°-30°	1366.1	17.8
30°-40°	1561.0	20.3
40°-50°	1411.3	18.4
50°-60°	1015.3	13.2
60°-70°	588.6	7.7
70°-80°	349.2	4.5
80°-90°	154.6	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°	2596.9	33.8
0°-40°	4157.9	54.2
0°-60°	6584.5	85.8
0°-90°	7677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3355	3355	3355	3355	3355	
5°	3353	3349	3346	3341	3352	319
15°	3231	3237	3237	3234	3246	912
25°	2977	2974	2971	2965	2974	1369
35°	2525	2513	2517	2486	2508	1574
45°	1878	1846	1826	1810	1793	1443
55°	1198	1175	1116	1088	1073	1071
65°	664	589	510	570	624	670
75°	374	313	276	340	393	395
85°	136	147	144	165	154	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3354.6	3354.6	3354.6	3354.6	3354.6
2.5°	3364.2	3352.2	3358.2	3354.6	3353.4
5°	3353.4	3348.6	3346.2	3341.4	3352.2
7.5°	3331.8	3328.2	3329.4	3330.6	3337.8
10°	3310.3	3304.3	3305.5	3307.9	3311.5
12.5°	3276.7	3273.1	3274.3	3276.7	3285.1
15°	3231.2	3237.2	3237.2	3233.6	3245.6
17.5°	3185.7	3184.5	3190.5	3179.7	3196.5
20°	3122.2	3123.4	3122.2	3123.4	3134.2
22.5°	3050.4	3056.4	3052.8	3052.8	3064.8
25°	2977.3	2973.7	2971.3	2965.4	2973.7
27.5°	2889.9	2882.7	2876.7	2864.7	2870.7
30°	2778.5	2779.7	2764.1	2753.4	2751.0
32.5°	2654.0	2654.0	2639.6	2631.2	2638.4
35°	2524.6	2512.6	2517.4	2486.3	2507.9
37.5°	2384.5	2365.3	2354.6	2343.8	2351.0
40°	2224.0	2198.9	2183.3	2161.7	2173.7
42.5°	2055.1	2024.0	2004.8	1989.3	1994.1
45°	1877.9	1845.6	1826.4	1809.6	1792.9
47.5°	1691.1	1670.7	1661.1	1639.6	1620.4
50°	1509.0	1501.8	1479.1	1461.1	1421.6
52.5°	1342.6	1336.6	1300.6	1270.7	1220.4
55°	1197.6	1174.9	1116.2	1087.5	1073.1
57.5°	1050.3	1013.2	942.5	938.9	948.5
60°	909.0	863.5	778.5	797.6	834.8
62.5°	780.9	712.6	631.2	676.7	721.0
65°	663.5	589.2	510.2	570.1	624.0
67.5°	566.5	492.2	410.8	491.0	553.3
70°	489.8	414.4	337.7	430.0	488.6
72.5°	426.4	358.1	294.6	382.0	443.1
75°	373.7	312.6	275.5	340.1	392.8
77.5°	321.0	271.9	263.5	303.0	335.3
80°	261.1	238.3	240.7	265.9	277.9
82.5°	195.2	196.4	202.4	222.8	218.0
85°	136.5	147.3	143.7	165.3	154.5
87.5°	75.5	82.6	77.8	94.6	85.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)