

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: P293703

Luminaire Tested: **24GR-LD5-72-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293703
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-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7678.0 lumens
Efficiency: N/A
Efficacy: 139.2 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

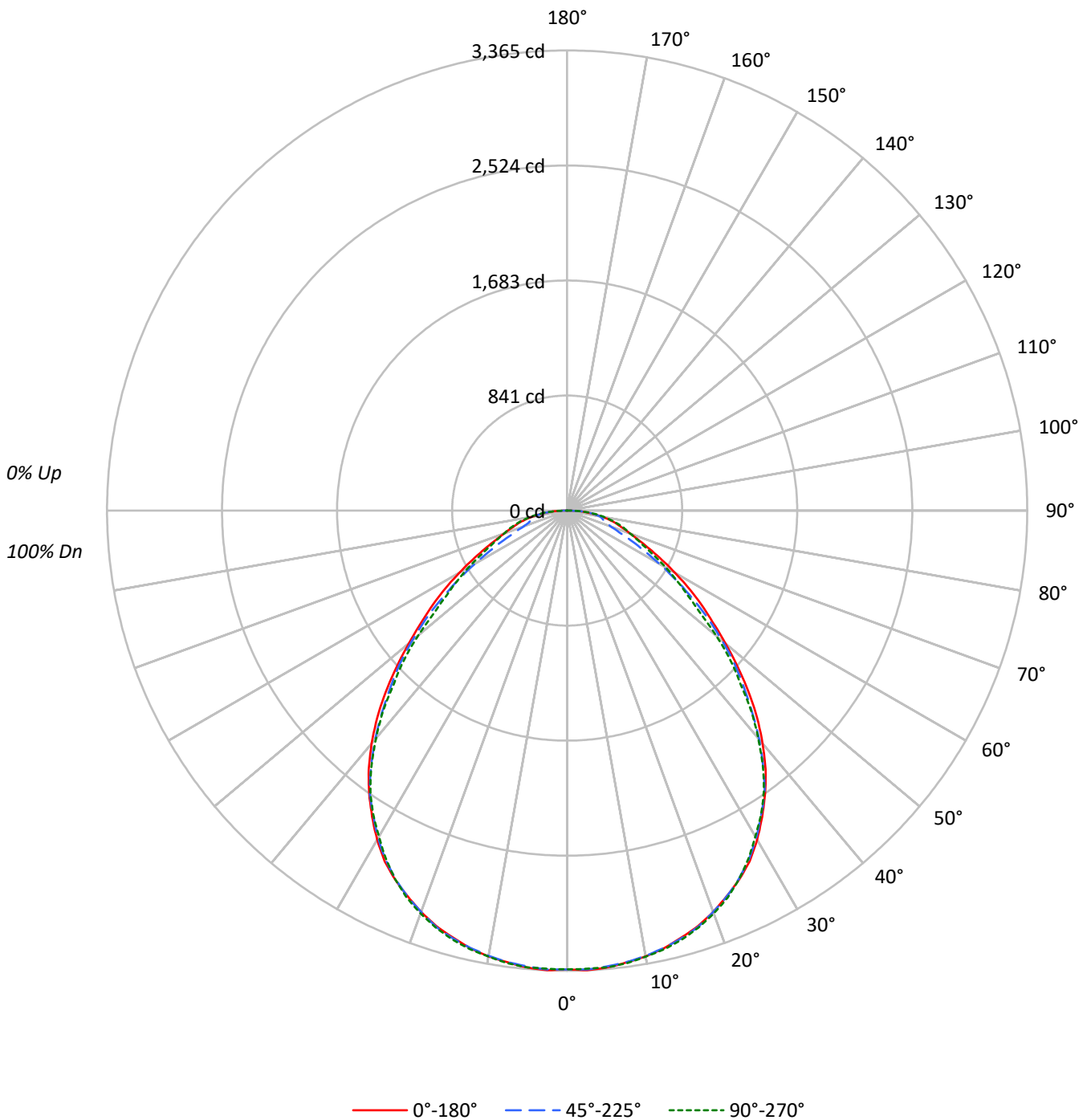
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4530	4520	4528
10°	4523	4517	4525
15°	4501	4510	4522
20°	4471	4471	4488
25°	4421	4412	4415
30°	4317	4295	4275
35°	4147	4136	4120
40°	3907	3835	3818
45°	3574	3476	3412
50°	3159	3096	2976
55°	2810	2619	2518
60°	2446	2095	2247
65°	2113	1625	1987
70°	1927	1329	1923
75°	1943	1432	2043
80°	2023	1866	2153
85°	2107	2218	2385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.3	4.1
10°-20°	912.7	11.9
20°-30°	1366.3	17.8
30°-40°	1561.2	20.3
40°-50°	1411.5	18.4
50°-60°	1015.5	13.2
60°-70°	588.7	7.7
70°-80°	349.2	4.5
80°-90°	154.7	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°	2597.3	33.8
0°-40°	4158.5	54.2
0°-60°	6585.4	85.8
0°-90°	7678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3355	3355	3355	3355	3355	
5°	3354	3349	3347	3342	3353	319
15°	3232	3238	3238	3234	3246	912
25°	2978	2974	2972	2966	2974	1369
35°	2525	2513	2518	2487	2508	1574
45°	1878	1846	1827	1810	1793	1443
55°	1198	1175	1116	1088	1073	1072
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°	3355.0	3355.0	3355.0	3355.0	3355.0
2.5°	3364.6	3352.6	3358.6	3355.0	3353.8
5°	3353.8	3349.0	3346.6	3341.8	3352.6
7.5°	3332.3	3328.7	3329.9	3331.1	3338.3
10°	3310.7	3304.7	3305.9	3308.3	3311.9
12.5°	3277.2	3273.6	3274.8	3277.2	3285.5
15°	3231.6	3237.6	3237.6	3234.0	3246.0
17.5°	3186.1	3184.9	3190.9	3180.1	3196.9
20°	3122.6	3123.8	3122.6	3123.8	3134.6
22.5°	3050.8	3056.8	3053.2	3053.2	3065.2
25°	2977.7	2974.1	2971.7	2965.7	2974.1
27.5°	2890.3	2883.1	2877.1	2865.1	2871.1
30°	2778.9	2780.1	2764.5	2753.7	2751.3
32.5°	2654.3	2654.3	2639.9	2631.6	2638.7
35°	2524.9	2513.0	2517.8	2486.6	2508.2
37.5°	2384.8	2365.6	2354.9	2344.1	2351.3
40°	2224.3	2199.1	2183.6	2162.0	2174.0
42.5°	2055.4	2024.3	2005.1	1989.5	1994.3
45°	1878.1	1845.8	1826.6	1809.9	1793.1
47.5°	1691.3	1670.9	1661.3	1639.8	1620.6
50°	1509.2	1502.0	1479.3	1461.3	1421.8
52.5°	1342.7	1336.7	1300.8	1270.9	1220.6
55°	1197.8	1175.0	1116.3	1087.6	1073.2
57.5°	1050.5	1013.3	942.7	939.1	948.7
60°	909.1	863.6	778.6	797.7	834.9
62.5°	781.0	712.7	631.2	676.8	721.1
65°	663.6	589.3	510.3	570.1	624.1
67.5°	566.6	492.3	410.8	491.1	553.4
70°	489.9	414.4	337.8	430.0	488.7
72.5°	426.4	358.1	294.7	382.1	443.2
75°	373.7	312.6	275.5	340.2	392.9
77.5°	321.0	271.9	263.5	303.0	335.4
80°	261.1	238.4	240.8	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	77.9	94.6	85.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)