

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: P293827

Luminaire Tested: **24GR-LD5-72-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293827
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-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6158.0 lumens
Efficiency: N/A
Efficacy: 115.0 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

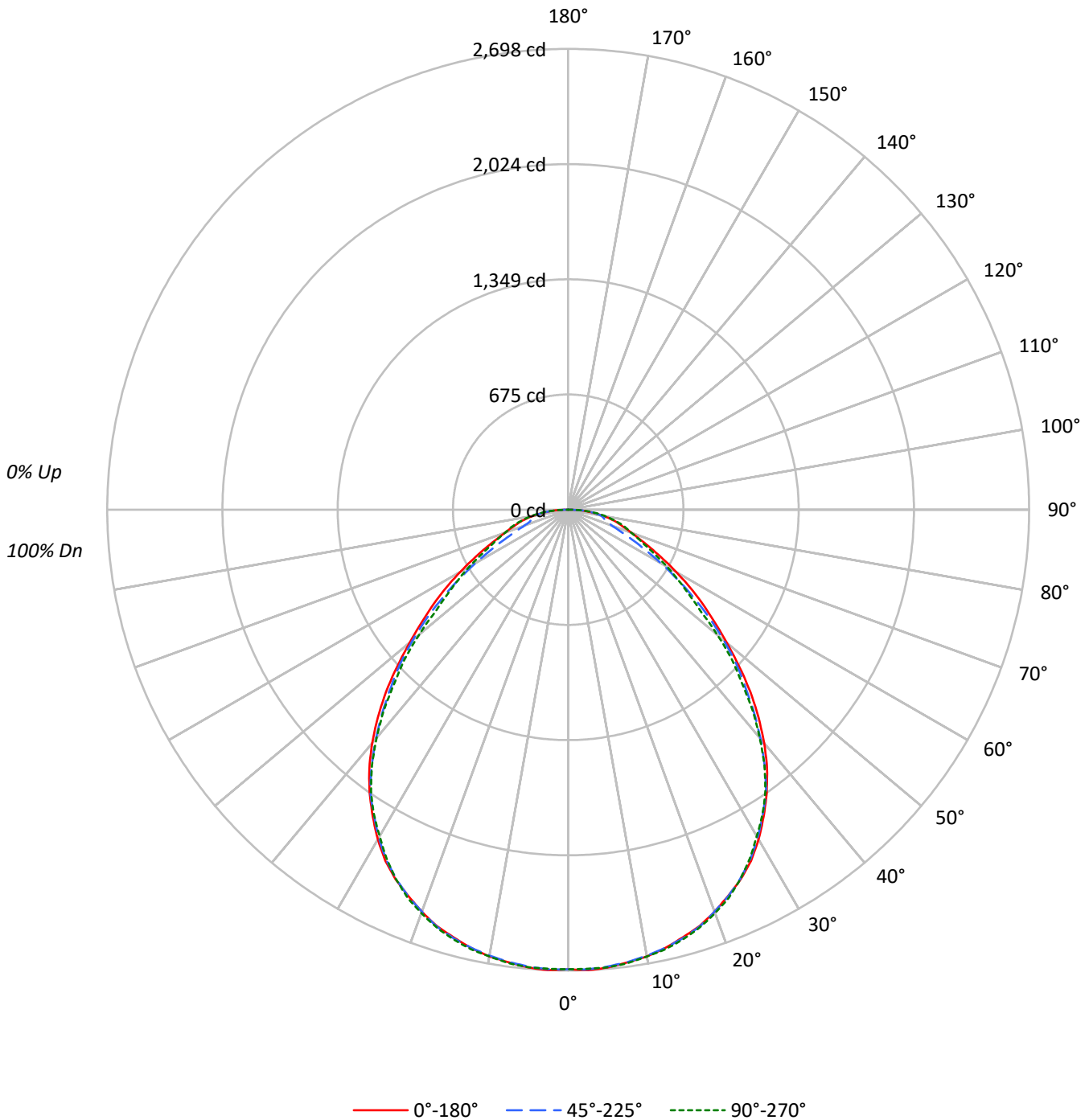
Input Watts (W): 53.543355
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3620	3620	3620
5°	3633	3625	3632
10°	3628	3622	3629
15°	3610	3617	3626
20°	3586	3586	3600
25°	3545	3538	3541
30°	3463	3445	3428
35°	3326	3317	3304
40°	3133	3076	3062
45°	2866	2788	2736
50°	2534	2483	2387
55°	2254	2100	2019
60°	1962	1680	1802
65°	1694	1303	1593
70°	1546	1066	1542
75°	1558	1149	1638
80°	1623	1496	1727
85°	1690	1780	1913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.3	4.1
10°-20°	732.1	11.9
20°-30°	1095.8	17.8
30°-40°	1252.1	20.3
40°-50°	1132.0	18.4
50°-60°	814.4	13.2
60°-70°	472.2	7.7
70°-80°	280.1	4.5
80°-90°	124.1	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°	2083.1	33.8
0°-40°	3335.2	54.2
0°-60°	5281.7	85.8
0°-90°	6158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2691	2691	2691	2691	2691	
5°	2690	2686	2684	2680	2689	256
15°	2592	2597	2597	2594	2603	732
25°	2388	2385	2383	2379	2385	1098
35°	2025	2016	2019	1994	2012	1262
45°	1506	1480	1465	1452	1438	1157
55°	961	942	895	872	861	859
65°	532	473	409	457	500	537
75°	300	251	221	273	315	317
85°	110	118	115	133	124	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2690.8	2690.8	2690.8	2690.8	2690.8
2.5°	2698.5	2688.9	2693.7	2690.8	2689.9
5°	2689.9	2686.0	2684.1	2680.3	2688.9
7.5°	2672.6	2669.7	2670.7	2671.6	2677.4
10°	2655.3	2650.5	2651.4	2653.4	2656.2
12.5°	2628.4	2625.5	2626.5	2628.4	2635.1
15°	2591.9	2596.7	2596.7	2593.8	2603.4
17.5°	2555.4	2554.4	2559.2	2550.6	2564.0
20°	2504.5	2505.4	2504.5	2505.4	2514.1
22.5°	2446.8	2451.6	2448.7	2448.7	2458.4
25°	2388.2	2385.3	2383.4	2378.6	2385.3
27.5°	2318.1	2312.3	2307.5	2297.9	2302.7
30°	2228.8	2229.7	2217.2	2208.6	2206.7
32.5°	2128.8	2128.8	2117.3	2110.6	2116.4
35°	2025.1	2015.5	2019.3	1994.3	2011.6
37.5°	1912.7	1897.3	1888.7	1880.0	1885.8
40°	1784.0	1763.8	1751.3	1734.0	1743.6
42.5°	1648.5	1623.5	1608.2	1595.7	1599.5
45°	1506.3	1480.4	1465.0	1451.6	1438.1
47.5°	1356.5	1340.1	1332.4	1315.2	1299.8
50°	1210.4	1204.7	1186.4	1172.0	1140.3
52.5°	1076.9	1072.1	1043.3	1019.3	978.9
55°	960.7	942.4	895.3	872.3	860.8
57.5°	842.5	812.7	756.0	753.2	760.8
60°	729.1	692.6	624.4	639.8	669.6
62.5°	626.4	571.6	506.3	542.8	578.3
65°	532.2	472.6	409.2	457.3	500.5
67.5°	454.4	394.8	329.5	393.9	443.8
70°	392.9	332.4	270.9	344.9	392.0
72.5°	342.0	287.2	236.3	306.5	355.4
75°	299.7	250.7	221.0	272.8	315.1
77.5°	257.5	218.1	211.3	243.0	269.0
80°	209.4	191.2	193.1	213.3	222.9
82.5°	156.6	157.5	162.4	178.7	174.8
85°	109.5	118.2	115.3	132.6	123.9
87.5°	60.5	66.3	62.4	75.9	68.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)