

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: P293828

Luminaire Tested: **24GR-LD5-72-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293828
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6649.0 lumens
Efficiency: N/A
Efficacy: 123.3 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

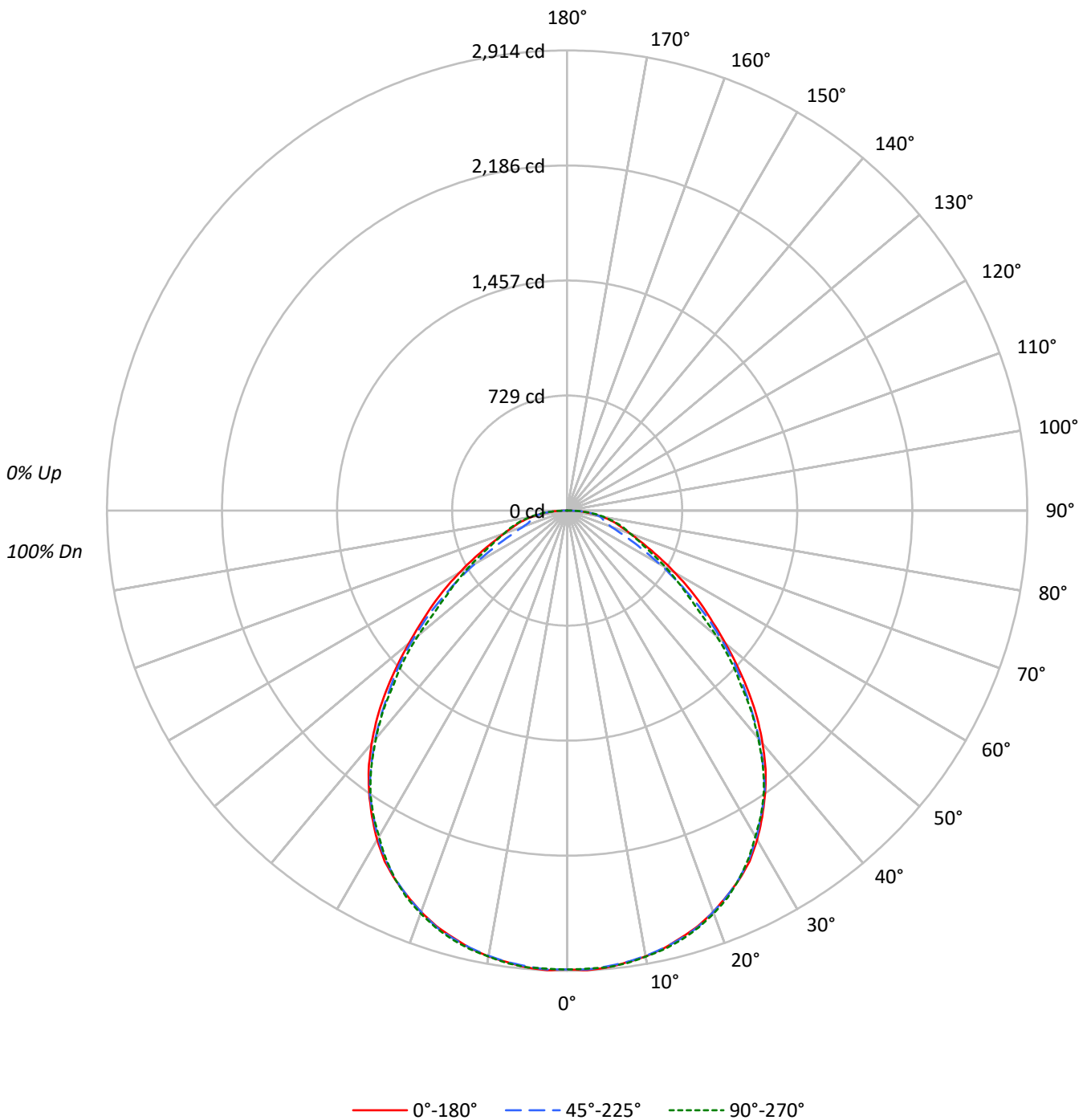
Input Watts (W): 53.91117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3909	3909	3909
5°	3923	3914	3921
10°	3917	3911	3918
15°	3898	3905	3916
20°	3872	3872	3887
25°	3828	3821	3824
30°	3739	3719	3702
35°	3592	3581	3568
40°	3383	3321	3307
45°	3095	3010	2955
50°	2736	2681	2577
55°	2433	2268	2180
60°	2119	1814	1946
65°	1829	1407	1720
70°	1669	1151	1665
75°	1682	1240	1769
80°	1752	1616	1864
85°	1825	1922	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	4.1
10°-20°	790.4	11.9
20°-30°	1183.2	17.8
30°-40°	1352.0	20.3
40°-50°	1222.3	18.4
50°-60°	879.4	13.2
60°-70°	509.8	7.7
70°-80°	302.4	4.5
80°-90°	133.9	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°	2249.2	33.8
0°-40°	3601.2	54.2
0°-60°	5702.8	85.8
0°-90°	6649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2905	2905	2905	2905	2905	
5°	2904	2900	2898	2894	2903	276
15°	2798	2804	2804	2801	2811	790
25°	2579	2576	2574	2568	2576	1185
35°	2187	2176	2180	2153	2172	1363
45°	1626	1598	1582	1567	1553	1249
55°	1037	1018	967	942	929	928
65°	575	510	442	494	540	580
75°	324	271	239	295	340	342
85°	118	128	124	143	134	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2905.4	2905.4	2905.4	2905.4	2905.4
2.5°	2913.7	2903.3	2908.5	2905.4	2904.3
5°	2904.3	2900.2	2898.1	2894.0	2903.3
7.5°	2885.7	2882.6	2883.6	2884.6	2890.9
10°	2867.0	2861.8	2862.9	2864.9	2868.0
12.5°	2838.0	2834.8	2835.9	2838.0	2845.2
15°	2798.5	2803.7	2803.7	2800.6	2811.0
17.5°	2759.1	2758.1	2763.3	2753.9	2768.5
20°	2704.2	2705.2	2704.2	2705.2	2714.5
22.5°	2641.9	2647.1	2644.0	2644.0	2654.4
25°	2578.6	2575.5	2573.5	2568.3	2575.5
27.5°	2502.9	2496.7	2491.5	2481.1	2486.3
30°	2406.5	2407.5	2394.0	2384.7	2382.6
32.5°	2298.6	2298.6	2286.1	2278.9	2285.1
35°	2186.6	2176.2	2180.3	2153.4	2172.0
37.5°	2065.2	2048.6	2039.3	2029.9	2036.2
40°	1926.2	1904.4	1890.9	1872.3	1882.6
42.5°	1779.9	1753.0	1736.4	1722.9	1727.0
45°	1626.4	1598.4	1581.8	1567.3	1552.8
47.5°	1464.6	1447.0	1438.7	1420.0	1403.4
50°	1307.0	1300.7	1281.0	1265.5	1231.2
52.5°	1162.8	1157.6	1126.5	1100.5	1057.0
55°	1037.3	1017.6	966.7	941.8	929.4
57.5°	909.7	877.5	816.3	813.2	821.5
60°	787.3	747.9	674.2	690.8	723.0
62.5°	676.3	617.2	546.6	586.1	624.4
65°	574.6	510.3	441.9	493.7	540.4
67.5°	490.6	426.3	355.8	425.3	479.2
70°	424.2	358.9	292.5	372.4	423.2
72.5°	369.3	310.1	255.2	330.9	383.8
75°	323.6	270.7	238.6	294.6	340.2
77.5°	278.0	235.5	228.2	262.4	290.4
80°	226.1	206.4	208.5	230.3	240.6
82.5°	169.1	170.1	175.3	192.9	188.8
85°	118.2	127.6	124.5	143.1	133.8
87.5°	65.3	71.6	67.4	81.9	73.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)