

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: P293694

Luminaire Tested: **24GR-LD5-56-A125-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293694
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-LD5-56-A125-UNV-L83050-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5984.0 lumens
Efficiency: N/A
Efficacy: 146.2 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

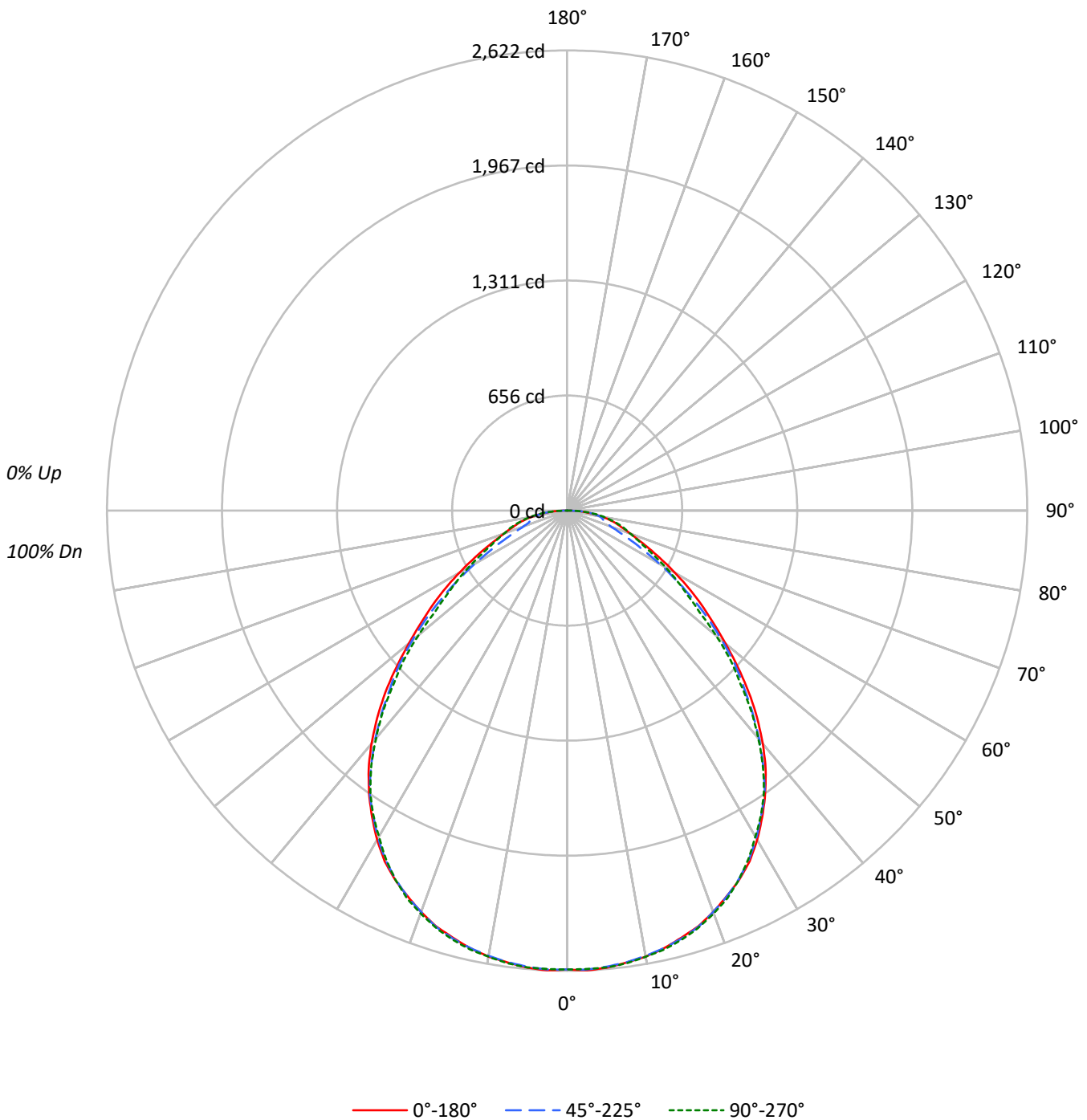
Input Watts (W): 40.92
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3518	3518	3518
5°	3530	3523	3529
10°	3525	3520	3527
15°	3508	3515	3524
20°	3485	3485	3498
25°	3445	3438	3441
30°	3365	3347	3331
35°	3232	3223	3211
40°	3045	2989	2976
45°	2785	2709	2659
50°	2462	2413	2319
55°	2190	2041	1962
60°	1907	1633	1751
65°	1647	1266	1549
70°	1502	1036	1498
75°	1514	1116	1592
80°	1577	1454	1678
85°	1643	1729	1859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.0	4.1
10°-20°	711.4	11.9
20°-30°	1064.8	17.8
30°-40°	1216.8	20.3
40°-50°	1100.1	18.4
50°-60°	791.4	13.2
60°-70°	458.8	7.7
70°-80°	272.2	4.5
80°-90°	120.5	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°	2024.2	33.8
0°-40°	3241.0	54.2
0°-60°	5132.5	85.8
0°-90°	5984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2615	2615	2615	2615	2615	
5°	2614	2610	2608	2604	2613	248
15°	2519	2523	2523	2520	2530	711
25°	2321	2318	2316	2311	2318	1067
35°	1968	1958	1962	1938	1955	1227
45°	1464	1439	1424	1411	1398	1125
55°	934	916	870	848	836	835
65°	517	459	398	444	486	522
75°	291	244	215	265	306	308
85°	106	115	112	129	120	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2614.8	2614.8	2614.8	2614.8	2614.8
2.5°	2622.3	2612.9	2617.6	2614.8	2613.9
5°	2613.9	2610.1	2608.3	2604.5	2612.9
7.5°	2597.1	2594.3	2595.2	2596.1	2601.7
10°	2580.3	2575.6	2576.5	2578.4	2581.2
12.5°	2554.1	2551.3	2552.3	2554.1	2560.7
15°	2518.6	2523.3	2523.3	2520.5	2529.8
17.5°	2483.2	2482.2	2486.9	2478.5	2491.6
20°	2433.7	2434.6	2433.7	2434.6	2443.0
22.5°	2377.7	2382.4	2379.6	2379.6	2388.9
25°	2320.7	2317.9	2316.1	2311.4	2317.9
27.5°	2252.6	2247.0	2242.3	2233.0	2237.7
30°	2165.8	2166.7	2154.6	2146.2	2144.3
32.5°	2068.7	2068.7	2057.5	2051.0	2056.6
35°	1967.9	1958.5	1962.3	1938.0	1954.8
37.5°	1858.6	1843.7	1835.3	1826.9	1832.5
40°	1733.6	1713.9	1701.8	1685.0	1694.3
42.5°	1601.9	1577.7	1562.7	1550.6	1554.3
45°	1463.8	1438.6	1423.6	1410.6	1397.5
47.5°	1318.1	1302.3	1294.8	1278.0	1263.1
50°	1176.2	1170.6	1152.9	1138.9	1108.1
52.5°	1046.5	1041.8	1013.8	990.5	951.3
55°	933.5	915.8	870.0	847.6	836.4
57.5°	818.7	789.8	734.7	731.9	739.4
60°	708.5	673.1	606.8	621.7	650.7
62.5°	608.7	555.4	492.0	527.4	562.0
65°	517.2	459.3	397.7	444.4	486.4
67.5°	441.6	383.7	320.2	382.7	431.3
70°	381.8	323.0	263.3	335.1	380.9
72.5°	332.3	279.1	229.6	297.8	345.4
75°	291.3	243.6	214.7	265.1	306.2
77.5°	250.2	211.9	205.4	236.2	261.4
80°	203.5	185.8	187.6	207.2	216.6
82.5°	152.2	153.1	157.8	173.6	169.9
85°	106.4	114.8	112.0	128.8	120.4
87.5°	58.8	64.4	60.7	73.7	66.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)