

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: P293761

Luminaire Tested: **24GR-LD5-56-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293761
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-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5870.0 lumens
Efficiency: N/A
Efficacy: 146.4 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

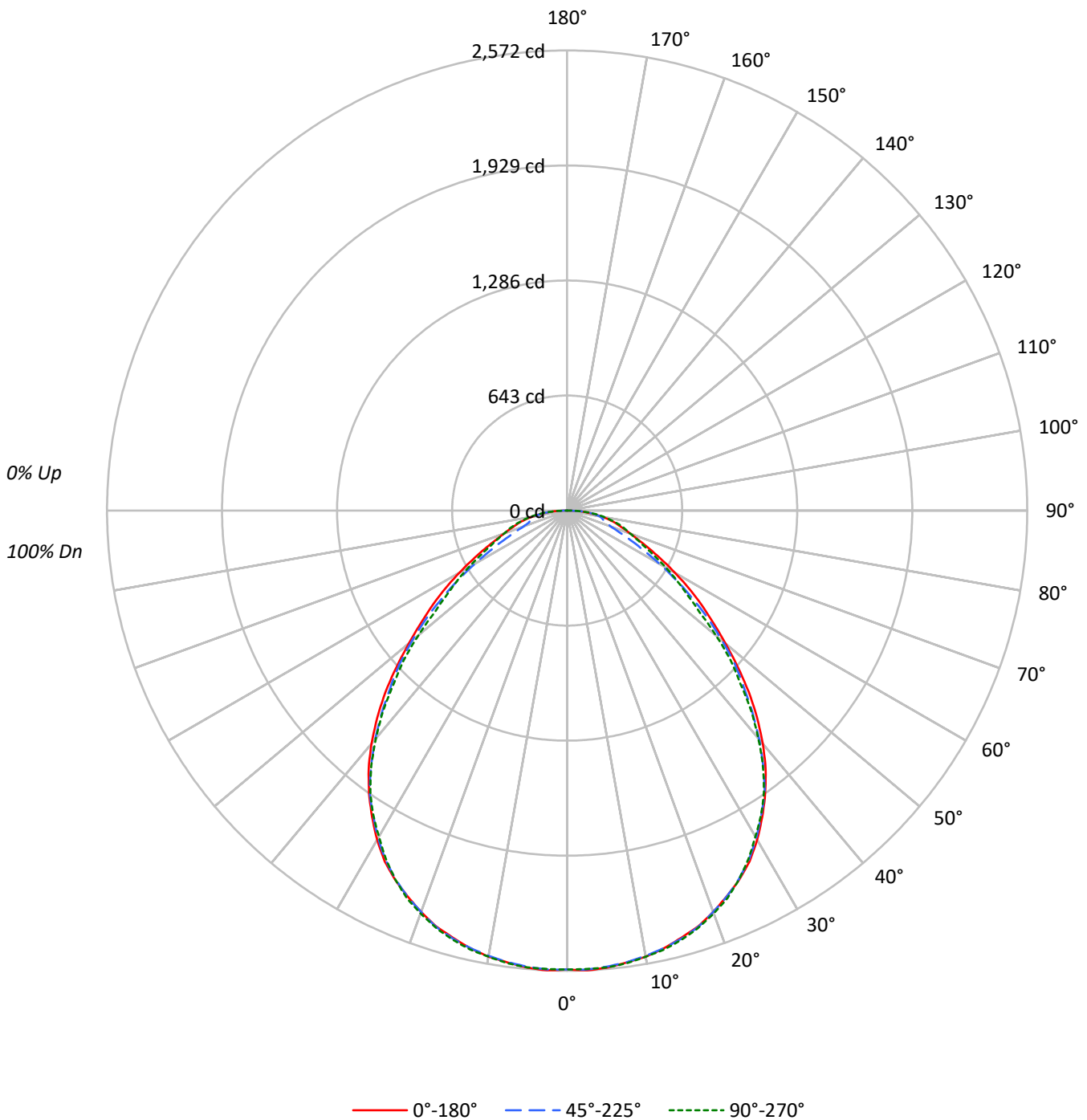
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3451	3451	3451
5°	3463	3456	3462
10°	3458	3453	3459
15°	3442	3448	3457
20°	3418	3418	3431
25°	3380	3373	3376
30°	3301	3284	3268
35°	3171	3162	3150
40°	2987	2932	2919
45°	2732	2657	2609
50°	2415	2367	2275
55°	2148	2002	1925
60°	1870	1602	1718
65°	1615	1242	1519
70°	1473	1016	1470
75°	1485	1095	1562
80°	1547	1426	1647
85°	1612	1697	1823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.3	4.1
10°-20°	697.8	11.9
20°-30°	1044.5	17.8
30°-40°	1193.6	20.3
40°-50°	1079.1	18.4
50°-60°	776.3	13.2
60°-70°	450.1	7.7
70°-80°	267.0	4.5
80°-90°	118.2	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°	1985.7	33.8
0°-40°	3179.2	54.2
0°-60°	5034.7	85.8
0°-90°	5870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2565	2565	2565	2565	2565	
5°	2564	2560	2559	2555	2563	244
15°	2471	2475	2475	2472	2482	697
25°	2276	2274	2272	2267	2274	1047
35°	1930	1921	1925	1901	1918	1203
45°	1436	1411	1396	1384	1371	1103
55°	916	898	854	832	820	819
65°	507	450	390	436	477	512
75°	286	239	211	260	300	302
85°	104	113	110	126	118	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2565.0	2565.0	2565.0	2565.0	2565.0
2.5°	2572.3	2563.2	2567.7	2565.0	2564.1
5°	2564.1	2560.4	2558.6	2554.9	2563.2
7.5°	2547.6	2544.8	2545.8	2546.7	2552.2
10°	2531.1	2526.5	2527.4	2529.3	2532.0
12.5°	2505.5	2502.7	2503.6	2505.5	2511.9
15°	2470.7	2475.2	2475.2	2472.5	2481.7
17.5°	2435.9	2435.0	2439.5	2431.3	2444.1
20°	2387.3	2388.2	2387.3	2388.2	2396.5
22.5°	2332.4	2337.0	2334.2	2334.2	2343.4
25°	2276.5	2273.8	2271.9	2267.4	2273.8
27.5°	2209.7	2204.2	2199.6	2190.4	2195.0
30°	2124.5	2125.4	2113.5	2105.3	2103.5
32.5°	2029.3	2029.3	2018.3	2011.9	2017.4
35°	1930.4	1921.2	1924.9	1901.1	1917.6
37.5°	1823.2	1808.6	1800.3	1792.1	1797.6
40°	1700.5	1681.3	1669.4	1652.9	1662.1
42.5°	1571.4	1547.6	1532.9	1521.0	1524.7
45°	1435.9	1411.2	1396.5	1383.7	1370.9
47.5°	1293.0	1277.5	1270.1	1253.6	1239.0
50°	1153.8	1148.3	1130.9	1117.2	1087.0
52.5°	1026.5	1022.0	994.5	971.6	933.1
55°	915.7	898.3	853.5	831.5	820.5
57.5°	803.1	774.7	720.7	717.9	725.3
60°	695.0	660.2	595.2	609.9	638.3
62.5°	597.1	544.9	482.6	517.4	551.3
65°	507.3	450.5	390.1	435.9	477.1
67.5°	433.1	376.4	314.1	375.5	423.1
70°	374.5	316.8	258.2	328.8	373.6
72.5°	326.0	273.8	225.3	292.1	338.8
75°	285.7	239.0	210.6	260.1	300.4
77.5°	245.4	207.9	201.5	231.7	256.4
80°	199.6	182.2	184.1	203.3	212.5
82.5°	149.3	150.2	154.8	170.3	166.7
85°	104.4	112.6	109.9	126.4	118.1
87.5°	57.7	63.2	59.5	72.3	65.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)