

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: P293691

Luminaire Tested: **24GR-LD5-56-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293691
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5646.0 lumens
Efficiency: N/A
Efficacy: 144.9 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

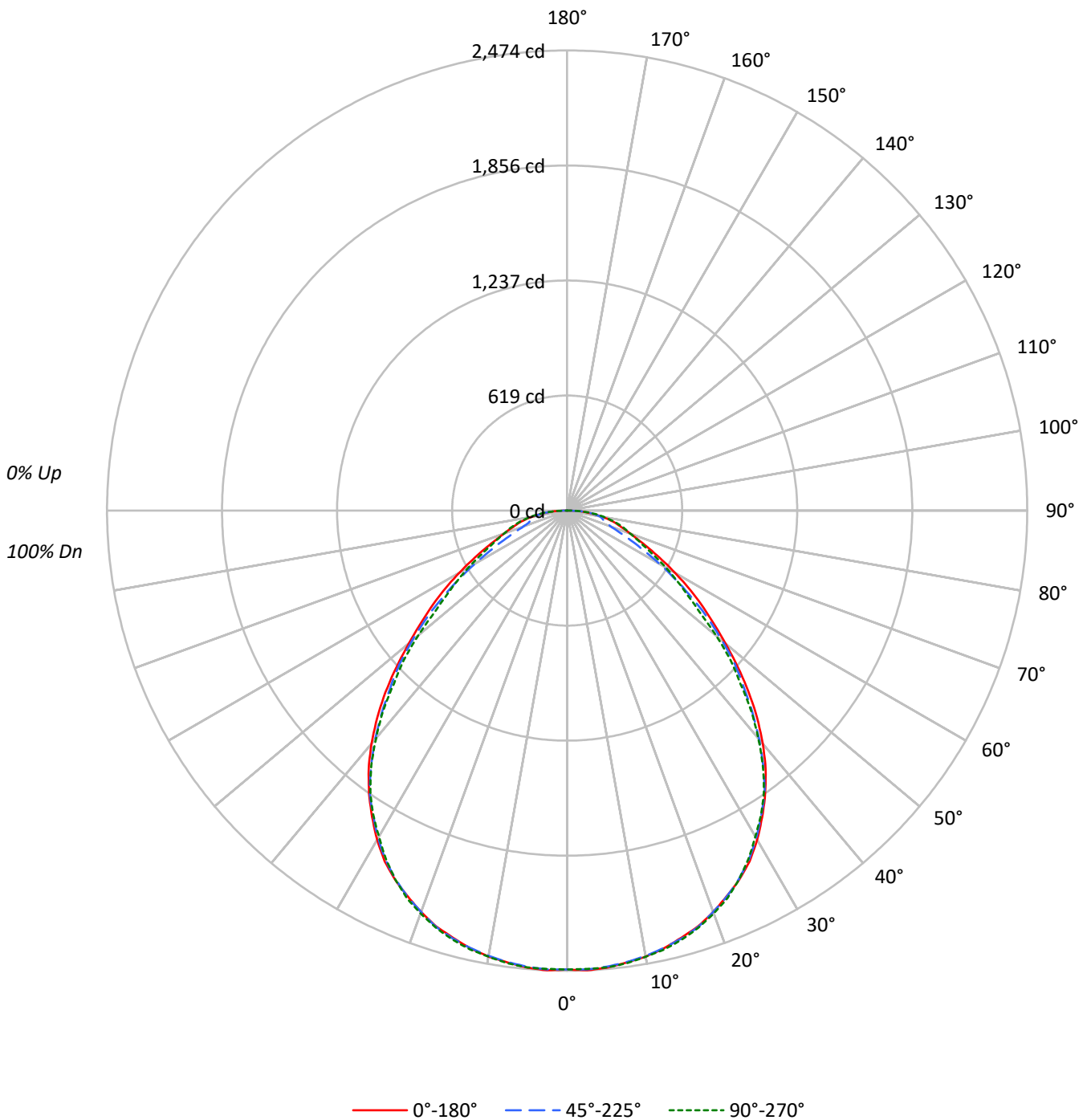
Input Watts (W): 38.967
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3319	3319	3319
5°	3331	3324	3330
10°	3326	3321	3327
15°	3310	3316	3325
20°	3288	3288	3300
25°	3251	3244	3247
30°	3175	3158	3143
35°	3050	3041	3029
40°	2873	2820	2808
45°	2628	2556	2509
50°	2323	2277	2188
55°	2066	1926	1851
60°	1799	1541	1652
65°	1554	1195	1461
70°	1417	977	1414
75°	1429	1053	1502
80°	1488	1371	1583
85°	1550	1632	1754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	4.1
10°-20°	671.2	11.9
20°-30°	1004.7	17.8
30°-40°	1148.0	20.3
40°-50°	1037.9	18.4
50°-60°	746.7	13.2
60°-70°	432.9	7.7
70°-80°	256.8	4.5
80°-90°	113.7	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°	1909.9	33.8
0°-40°	3057.9	54.2
0°-60°	4842.6	85.8
0°-90°	5646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5646.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2467	2467	2467	2467	2467	
5°	2466	2463	2461	2457	2465	234
15°	2376	2381	2381	2378	2387	671
25°	2190	2187	2185	2181	2187	1007
35°	1857	1848	1851	1828	1844	1158
45°	1381	1357	1343	1331	1318	1061
55°	881	864	821	800	789	788
65°	488	433	375	419	459	493
75°	275	230	203	250	289	290
85°	100	108	106	122	114	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2467.1	2467.1	2467.1	2467.1	2467.1
2.5°	2474.2	2465.3	2469.7	2467.1	2466.2
5°	2466.2	2462.7	2460.9	2457.4	2465.3
7.5°	2450.4	2447.7	2448.6	2449.5	2454.8
10°	2434.5	2430.1	2431.0	2432.8	2435.4
12.5°	2409.9	2407.2	2408.1	2409.9	2416.0
15°	2376.4	2380.8	2380.8	2378.1	2387.0
17.5°	2342.9	2342.0	2346.4	2338.5	2350.8
20°	2296.2	2297.1	2296.2	2297.1	2305.0
22.5°	2243.4	2247.8	2245.1	2245.1	2254.0
25°	2189.7	2187.0	2185.3	2180.8	2187.0
27.5°	2125.4	2120.1	2115.7	2106.9	2111.3
30°	2043.4	2044.3	2032.9	2024.9	2023.2
32.5°	1951.8	1951.8	1941.3	1935.1	1940.4
35°	1856.7	1847.9	1851.4	1828.5	1844.4
37.5°	1753.7	1739.6	1731.6	1723.7	1729.0
40°	1635.6	1617.1	1605.7	1589.8	1598.6
42.5°	1511.4	1488.5	1474.5	1463.0	1466.5
45°	1381.1	1357.3	1343.2	1330.9	1318.5
47.5°	1243.7	1228.7	1221.7	1205.8	1191.7
50°	1109.8	1104.5	1087.8	1074.6	1045.5
52.5°	987.4	983.0	956.5	934.5	897.5
55°	880.8	864.1	820.9	799.8	789.2
57.5°	772.5	745.2	693.2	690.5	697.6
60°	668.5	635.1	572.5	586.6	613.9
62.5°	574.3	524.1	464.2	497.6	530.2
65°	488.0	433.4	375.2	419.3	458.9
67.5°	416.6	362.0	302.1	361.1	406.9
70°	360.2	304.8	248.4	316.2	359.4
72.5°	313.6	263.4	216.7	281.0	325.9
75°	274.8	229.9	202.6	250.1	288.9
77.5°	236.1	199.9	193.8	222.8	246.6
80°	192.0	175.3	177.0	195.5	204.3
82.5°	143.6	144.5	148.9	163.8	160.3
85°	100.4	108.3	105.7	121.5	113.6
87.5°	55.5	60.8	57.3	69.6	62.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)