

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: P293756

Luminaire Tested: **24GR-LD5-56-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293756
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5330.0 lumens
Efficiency: N/A
Efficacy: 137.8 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

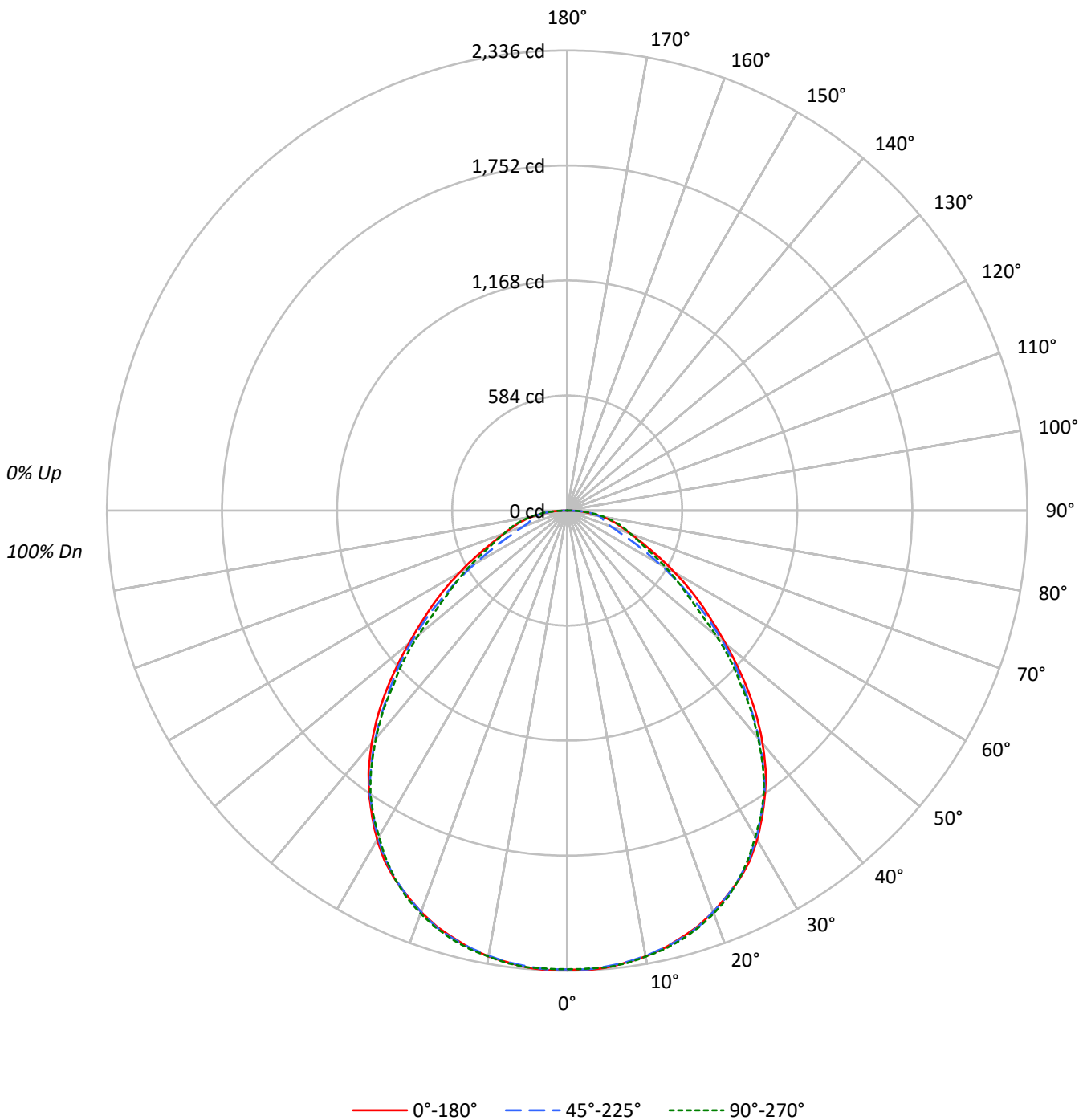
Input Watts (W): 38.688
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3134	3134	3134
5°	3145	3138	3143
10°	3140	3135	3141
15°	3125	3131	3139
20°	3104	3104	3116
25°	3069	3063	3065
30°	2997	2982	2967
35°	2879	2871	2860
40°	2712	2662	2651
45°	2481	2413	2369
50°	2193	2150	2066
55°	1951	1818	1748
60°	1698	1454	1560
65°	1466	1128	1379
70°	1338	923	1335
75°	1349	994	1418
80°	1405	1295	1495
85°	1463	1541	1656



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.9	4.1
10°-20°	633.6	11.9
20°-30°	948.4	17.8
30°-40°	1083.8	20.3
40°-50°	979.8	18.4
50°-60°	704.9	13.2
60°-70°	408.7	7.7
70°-80°	242.4	4.5
80°-90°	107.4	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°	1803.0	33.8
0°-40°	2886.8	54.2
0°-60°	4571.5	85.8
0°-90°	5330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2329	2329	2329	2329	2329	
5°	2328	2325	2323	2320	2327	221
15°	2243	2248	2248	2245	2253	633
25°	2067	2065	2063	2059	2065	950
35°	1753	1744	1748	1726	1741	1093
45°	1304	1281	1268	1256	1245	1002
55°	832	816	775	755	745	744
65°	461	409	354	396	433	465
75°	259	217	191	236	273	274
85°	95	102	100	115	107	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2329.0	2329.0	2329.0	2329.0	2329.0
2.5°	2335.7	2327.4	2331.5	2329.0	2328.2
5°	2328.2	2324.9	2323.2	2319.9	2327.4
7.5°	2313.2	2310.7	2311.6	2312.4	2317.4
10°	2298.3	2294.1	2294.9	2296.6	2299.1
12.5°	2275.0	2272.5	2273.3	2275.0	2280.8
15°	2243.4	2247.5	2247.5	2245.0	2253.4
17.5°	2211.8	2211.0	2215.1	2207.6	2219.3
20°	2167.7	2168.5	2167.7	2168.5	2176.0
22.5°	2117.8	2122.0	2119.5	2119.5	2127.8
25°	2067.1	2064.6	2062.9	2058.8	2064.6
27.5°	2006.4	2001.4	1997.3	1988.9	1993.1
30°	1929.1	1929.9	1919.1	1911.6	1909.9
32.5°	1842.6	1842.6	1832.6	1826.8	1831.8
35°	1752.8	1744.5	1747.8	1726.2	1741.2
37.5°	1655.5	1642.2	1634.7	1627.2	1632.2
40°	1544.1	1526.6	1515.8	1500.9	1509.2
42.5°	1426.8	1405.2	1391.9	1381.1	1384.4
45°	1303.8	1281.3	1268.0	1256.4	1244.8
47.5°	1174.1	1159.9	1153.3	1138.3	1125.0
50°	1047.7	1042.7	1026.9	1014.4	987.0
52.5°	932.1	928.0	903.0	882.2	847.3
55°	831.5	815.7	775.0	755.0	745.0
57.5°	729.2	703.4	654.4	651.9	658.5
60°	631.1	599.5	540.5	553.8	579.6
62.5°	542.1	494.7	438.2	469.8	500.6
65°	460.6	409.1	354.2	395.8	433.2
67.5°	393.3	341.7	285.2	340.9	384.2
70°	340.1	287.7	234.5	298.5	339.3
72.5°	296.0	248.6	204.5	265.2	307.7
75°	259.4	217.0	191.2	236.1	272.7
77.5°	222.8	188.7	182.9	210.4	232.8
80°	181.3	165.5	167.1	184.6	192.9
82.5°	135.5	136.4	140.5	154.7	151.3
85°	94.8	102.3	99.8	114.7	107.3
87.5°	52.4	57.4	54.0	65.7	59.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)