

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: P293690

Luminaire Tested: **24GR-LD5-56-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293690
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-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: 5335.0 lumens
Efficiency: N/A
Efficacy: 137.2 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

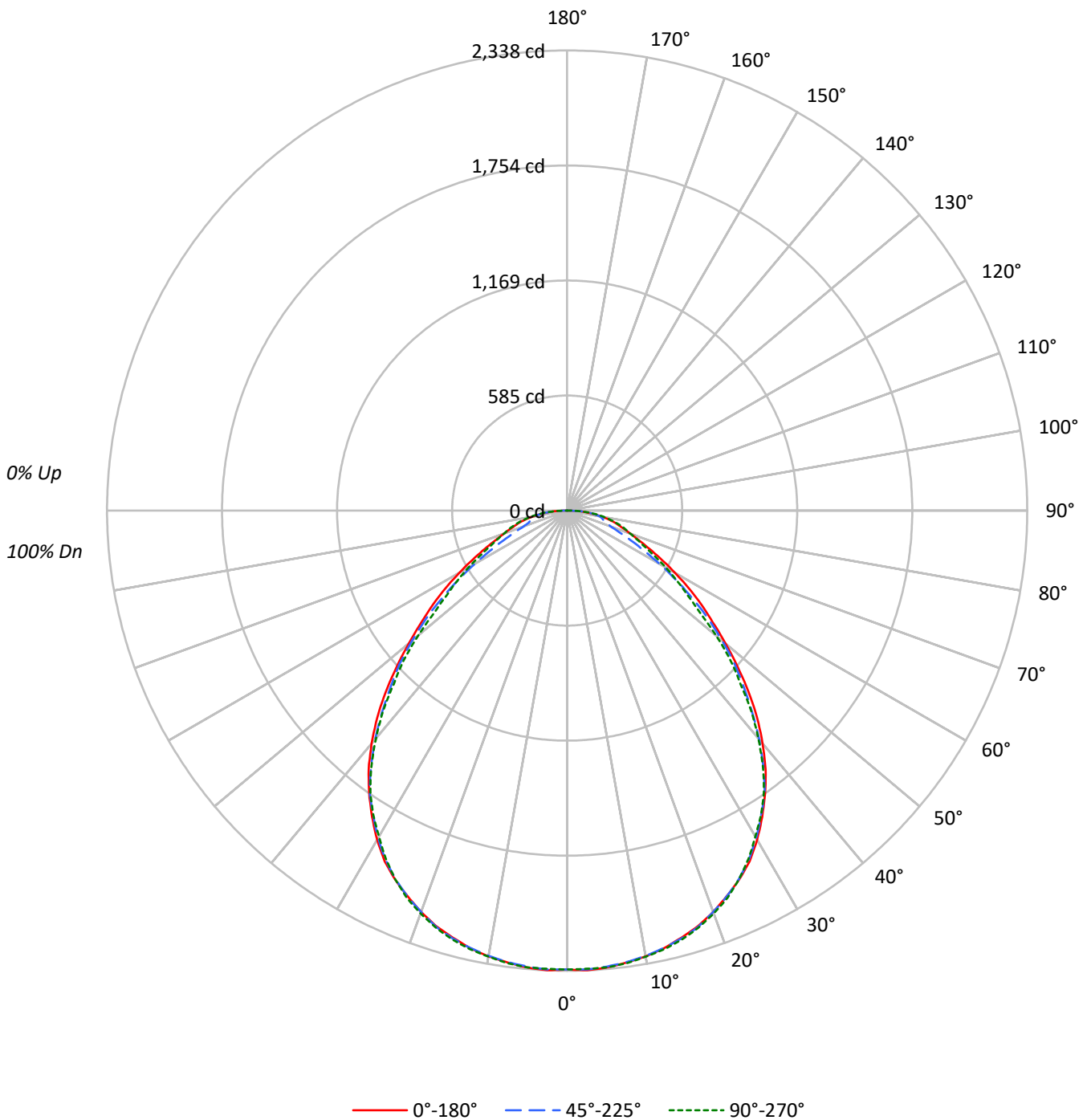
Input Watts (W): 38.874
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3137	3137	3137
5°	3148	3141	3146
10°	3143	3138	3144
15°	3128	3134	3142
20°	3107	3107	3119
25°	3072	3066	3068
30°	3000	2984	2970
35°	2882	2873	2863
40°	2715	2665	2653
45°	2483	2415	2371
50°	2195	2152	2068
55°	1952	1820	1749
60°	1700	1456	1561
65°	1468	1129	1380
70°	1339	923	1336
75°	1350	995	1419
80°	1406	1296	1496
85°	1465	1542	1658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.1	4.1
10°-20°	634.2	11.9
20°-30°	949.3	17.8
30°-40°	1084.8	20.3
40°-50°	980.8	18.4
50°-60°	705.6	13.2
60°-70°	409.1	7.7
70°-80°	242.7	4.5
80°-90°	107.5	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°	1804.7	33.8
0°-40°	2889.5	54.2
0°-60°	4575.8	85.8
0°-90°	5335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2331	2331	2331	2331	2331	
5°	2330	2327	2325	2322	2330	221
15°	2246	2250	2250	2247	2256	634
25°	2069	2066	2065	2061	2066	951
35°	1754	1746	1749	1728	1743	1094
45°	1305	1282	1269	1258	1246	1003
55°	832	816	776	756	746	745
65°	461	410	355	396	434	466
75°	260	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°	2331.2	2331.2	2331.2	2331.2	2331.2
2.5°	2337.9	2329.5	2333.7	2331.2	2330.4
5°	2330.4	2327.0	2325.4	2322.1	2329.5
7.5°	2315.4	2312.9	2313.7	2314.6	2319.6
10°	2300.4	2296.3	2297.1	2298.8	2301.2
12.5°	2277.1	2274.6	2275.4	2277.1	2282.9
15°	2245.5	2249.6	2249.6	2247.1	2255.5
17.5°	2213.9	2213.0	2217.2	2209.7	2221.3
20°	2169.7	2170.6	2169.7	2170.6	2178.1
22.5°	2119.8	2124.0	2121.5	2121.5	2129.8
25°	2069.0	2066.5	2064.9	2060.7	2066.5
27.5°	2008.3	2003.3	1999.1	1990.8	1995.0
30°	1930.9	1931.7	1920.9	1913.4	1911.7
32.5°	1844.3	1844.3	1834.3	1828.5	1833.5
35°	1754.4	1746.1	1749.4	1727.8	1742.8
37.5°	1657.1	1643.7	1636.3	1628.8	1633.8
40°	1545.5	1528.1	1517.2	1502.3	1510.6
42.5°	1428.2	1406.5	1393.2	1382.4	1385.7
45°	1305.0	1282.5	1269.2	1257.6	1245.9
47.5°	1175.2	1161.0	1154.4	1139.4	1126.1
50°	1048.7	1043.7	1027.9	1015.4	987.9
52.5°	933.0	928.8	903.9	883.0	848.1
55°	832.3	816.5	775.7	755.7	745.7
57.5°	729.9	704.1	655.0	652.5	659.2
60°	631.7	600.1	541.0	554.3	580.1
62.5°	542.6	495.2	438.6	470.2	501.0
65°	461.1	409.5	354.6	396.2	433.6
67.5°	393.7	342.1	285.5	341.2	384.5
70°	340.4	288.0	234.7	298.8	339.6
72.5°	296.3	248.9	204.7	265.5	307.9
75°	259.7	217.2	191.4	236.4	273.0
77.5°	223.1	188.9	183.1	210.6	233.0
80°	181.4	165.6	167.3	184.8	193.1
82.5°	135.7	136.5	140.7	154.8	151.5
85°	94.9	102.4	99.9	114.9	107.4
87.5°	52.4	57.4	54.1	65.7	59.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)