

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: P293686

Luminaire Tested: **24GR-LD5-48-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293686
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-LD5-48-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: 4858.0 lumens
Efficiency: N/A
Efficacy: 148.0 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

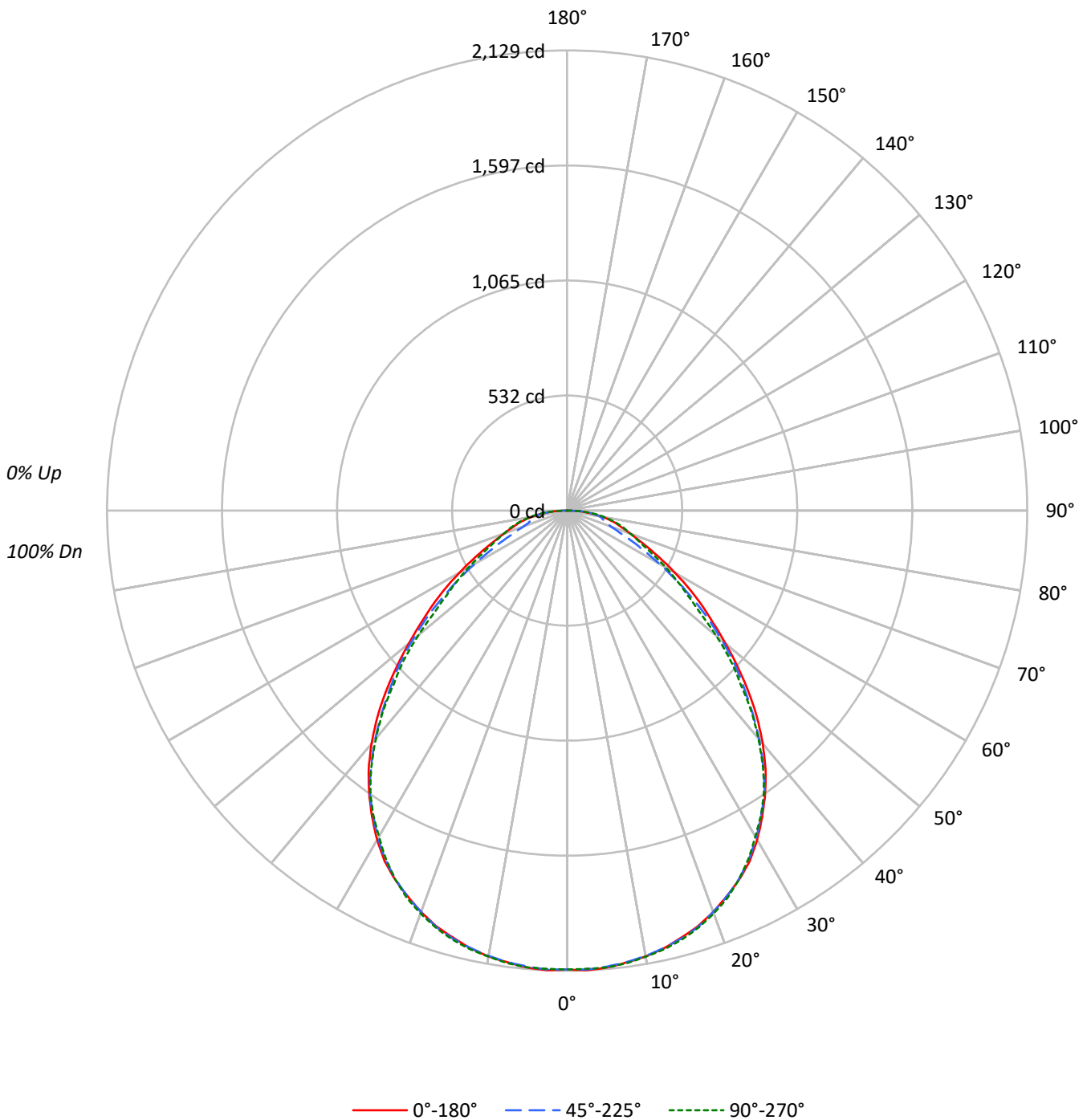
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2856	2856	2856
5°	2866	2860	2865
10°	2862	2858	2863
15°	2848	2853	2861
20°	2829	2829	2840
25°	2797	2791	2794
30°	2732	2718	2705
35°	2624	2617	2607
40°	2472	2427	2416
45°	2261	2199	2159
50°	1999	1959	1883
55°	1778	1657	1593
60°	1548	1326	1421
65°	1337	1028	1257
70°	1220	841	1216
75°	1229	906	1292
80°	1280	1180	1362
85°	1334	1403	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	4.1
10°-20°	577.5	11.9
20°-30°	864.5	17.8
30°-40°	987.8	20.3
40°-50°	893.1	18.4
50°-60°	642.5	13.2
60°-70°	372.5	7.7
70°-80°	220.9	4.5
80°-90°	97.9	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°	1643.3	33.8
0°-40°	2631.1	54.2
0°-60°	4166.7	85.8
0°-90°	4858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2123	2123	2123	2123	2123	
5°	2122	2119	2118	2114	2121	202
15°	2045	2048	2048	2046	2054	577
25°	1884	1882	1880	1876	1882	866
35°	1598	1590	1593	1573	1587	996
45°	1188	1168	1156	1145	1134	913
55°	758	744	706	688	679	678
65°	420	373	323	361	395	424
75°	236	198	174	215	249	250
85°	86	93	91	105	98	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2122.8	2122.8	2122.8	2122.8	2122.8
2.5°	2128.8	2121.3	2125.1	2122.8	2122.0
5°	2122.0	2119.0	2117.5	2114.4	2121.3
7.5°	2108.4	2106.1	2106.9	2107.6	2112.2
10°	2094.7	2090.9	2091.7	2093.2	2095.5
12.5°	2073.5	2071.2	2072.0	2073.5	2078.8
15°	2044.7	2048.5	2048.5	2046.2	2053.8
17.5°	2015.9	2015.2	2018.9	2012.1	2022.7
20°	1975.8	1976.5	1975.8	1976.5	1983.3
22.5°	1930.3	1934.1	1931.8	1931.8	1939.4
25°	1884.0	1881.8	1880.3	1876.5	1881.8
27.5°	1828.7	1824.2	1820.4	1812.8	1816.6
30°	1758.2	1759.0	1749.2	1742.3	1740.8
32.5°	1679.4	1679.4	1670.3	1665.0	1669.6
35°	1597.6	1590.0	1593.0	1573.3	1587.0
37.5°	1508.9	1496.8	1490.0	1483.1	1487.7
40°	1407.4	1391.4	1381.6	1367.9	1375.5
42.5°	1300.5	1280.8	1268.7	1258.8	1261.8
45°	1188.3	1167.9	1155.7	1145.1	1134.5
47.5°	1070.1	1057.2	1051.2	1037.5	1025.4
50°	954.9	950.4	936.0	924.6	899.6
52.5°	849.6	845.8	823.0	804.1	772.3
55°	757.9	743.5	706.3	688.1	679.0
57.5°	664.6	641.2	596.4	594.2	600.2
60°	575.2	546.4	492.6	504.7	528.2
62.5°	494.1	450.9	399.4	428.2	456.2
65°	419.9	372.9	322.9	360.7	394.8
67.5°	358.5	311.5	259.9	310.7	350.1
70°	310.0	262.2	213.7	272.1	309.2
72.5°	269.8	226.6	186.4	241.8	280.4
75°	236.5	197.8	174.3	215.2	248.6
77.5°	203.1	172.0	166.7	191.7	212.2
80°	165.2	150.8	152.3	168.2	175.8
82.5°	123.5	124.3	128.1	141.0	137.9
85°	86.4	93.2	90.9	104.6	97.8
87.5°	47.7	52.3	49.3	59.9	53.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)