

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: P293892

Luminaire Tested: **24GR-LD5-64-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293892
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-LD5-64-A125-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5485.0 lumens
Efficiency: N/A
Efficacy: 119.1 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

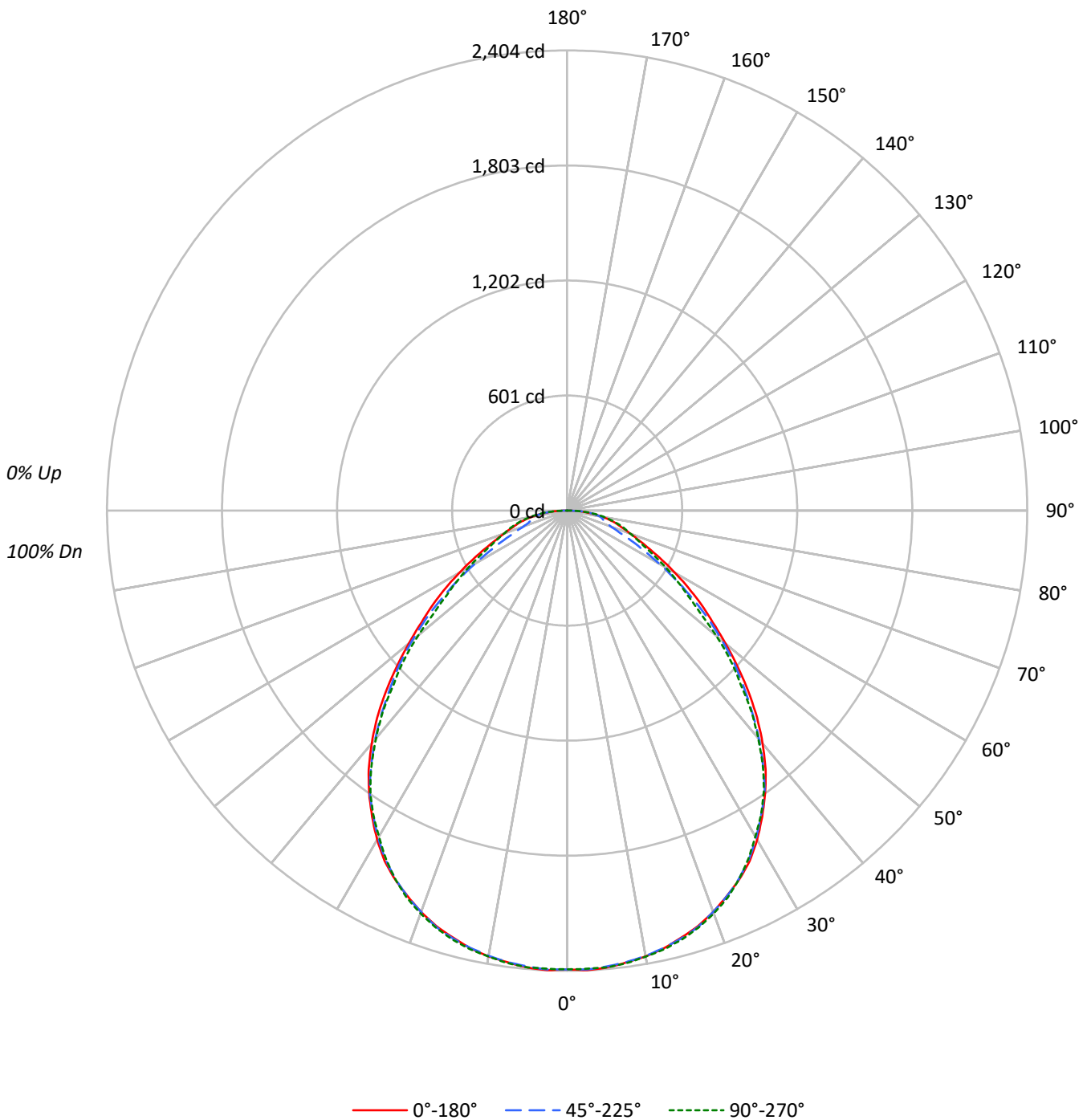
Input Watts (W): 46.035
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293892

CATALOG NUMBER: 24GR-LD5-64-A125-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P293892

CATALOG NUMBER: 24GR-LD5-64-A125-UNV-L92765-W2A1-U-3500K

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°	3225	3225	3225
5°	3236	3229	3235
10°	3231	3227	3232
15°	3216	3222	3230
20°	3194	3194	3206
25°	3158	3152	3154
30°	3084	3068	3054
35°	2963	2954	2943
40°	2791	2740	2728
45°	2553	2483	2437
50°	2257	2212	2126
55°	2007	1871	1799
60°	1748	1497	1605
65°	1509	1160	1419
70°	1377	949	1373
75°	1388	1023	1459
80°	1445	1333	1538
85°	1505	1585	1704



TEST NUMBER: P293892

CATALOG NUMBER: 24GR-LD5-64-A125-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	4.1
10°-20°	652.0	11.9
20°-30°	976.0	17.8
30°-40°	1115.3	20.3
40°-50°	1008.3	18.4
50°-60°	725.4	13.2
60°-70°	420.5	7.7
70°-80°	249.5	4.5
80°-90°	110.5	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°	1855.4	33.8
0°-40°	2970.7	54.2
0°-60°	4704.5	85.8
0°-90°	5485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2397	2397	2397	2397	2397	
5°	2396	2392	2391	2387	2395	228
15°	2309	2313	2313	2310	2319	652
25°	2127	2125	2123	2119	2125	978
35°	1804	1795	1799	1776	1792	1125
45°	1342	1319	1305	1293	1281	1031
55°	856	839	798	777	767	765
65°	474	421	364	407	446	479
75°	267	223	197	243	281	282
85°	98	105	103	118	110	105
90°	0	0	0	0	0	



TEST NUMBER: P293892

CATALOG NUMBER: 24GR-LD5-64-A125-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2396.8	2396.8	2396.8	2396.8	2396.8
2.5°	2403.6	2395.0	2399.3	2396.8	2395.9
5°	2395.9	2392.5	2390.8	2387.3	2395.0
7.5°	2380.5	2377.9	2378.8	2379.6	2384.8
10°	2365.1	2360.8	2361.7	2363.4	2365.9
12.5°	2341.1	2338.6	2339.4	2341.1	2347.1
15°	2308.6	2312.9	2312.9	2310.3	2318.9
17.5°	2276.1	2275.2	2279.5	2271.8	2283.8
20°	2230.8	2231.6	2230.8	2231.6	2239.3
22.5°	2179.4	2183.7	2181.1	2181.1	2189.7
25°	2127.2	2124.6	2122.9	2118.7	2124.6
27.5°	2064.8	2059.6	2055.3	2046.8	2051.1
30°	1985.2	1986.0	1974.9	1967.2	1965.5
32.5°	1896.2	1896.2	1885.9	1879.9	1885.1
35°	1803.8	1795.2	1798.6	1776.4	1791.8
37.5°	1703.7	1690.0	1682.3	1674.6	1679.7
40°	1589.0	1571.0	1559.9	1544.5	1553.1
42.5°	1468.3	1446.1	1432.4	1421.3	1424.7
45°	1341.7	1318.6	1304.9	1292.9	1281.0
47.5°	1208.2	1193.7	1186.8	1171.4	1157.7
50°	1078.2	1073.0	1056.8	1043.9	1015.7
52.5°	959.2	954.9	929.3	907.9	871.9
55°	855.7	839.4	797.5	777.0	766.7
57.5°	750.4	723.9	673.4	670.9	677.7
60°	649.5	616.9	556.2	569.9	596.4
62.5°	557.9	509.1	450.9	483.5	515.1
65°	474.0	421.0	364.5	407.3	445.8
67.5°	404.7	351.7	293.5	350.8	395.3
70°	350.0	296.1	241.3	307.2	349.1
72.5°	304.6	255.8	210.5	273.0	316.6
75°	267.0	223.3	196.8	243.0	280.7
77.5°	229.3	194.2	188.2	216.5	239.6
80°	186.5	170.3	172.0	190.0	198.5
82.5°	139.5	140.3	144.6	159.2	155.7
85°	97.5	105.2	102.7	118.1	110.4
87.5°	53.9	59.0	55.6	67.6	60.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)