

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: P293687

Luminaire Tested: **24GR-LD5-48-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293687
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5101.0 lumens
Efficiency: N/A
Efficacy: 151.9 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

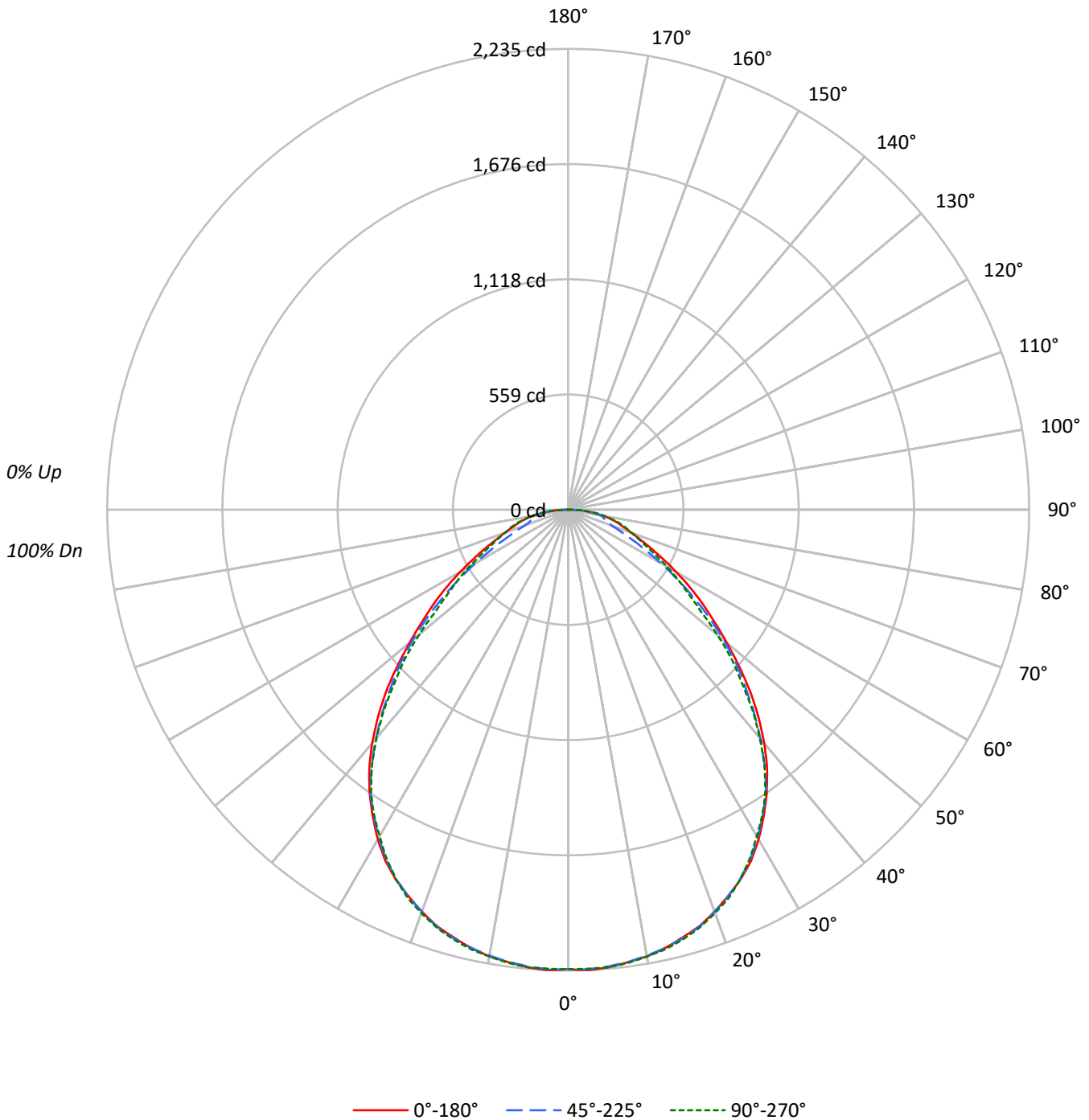
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293687

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P293687

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L83050-W2A1-U-4000K

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°	2999	2999	2999
5°	3009	3003	3008
10°	3005	3001	3006
15°	2991	2996	3004
20°	2970	2970	2982
25°	2937	2931	2933
30°	2868	2853	2840
35°	2755	2747	2737
40°	2596	2548	2537
45°	2374	2309	2267
50°	2099	2057	1977
55°	1867	1740	1673
60°	1625	1392	1493
65°	1404	1079	1320
70°	1281	883	1277
75°	1291	951	1357
80°	1344	1240	1430
85°	1400	1474	1585



TEST NUMBER: P293687

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	4.1
10°-20°	606.4	11.9
20°-30°	907.7	17.8
30°-40°	1037.2	20.3
40°-50°	937.7	18.4
50°-60°	674.7	13.2
60°-70°	391.1	7.7
70°-80°	232.0	4.5
80°-90°	102.8	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°	1725.5	33.8
0°-40°	2762.7	54.2
0°-60°	4375.1	85.8
0°-90°	5101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2229	2229	2229	2229	2229	
5°	2228	2225	2223	2220	2227	212
15°	2147	2151	2151	2149	2156	606
25°	1978	1976	1974	1970	1976	909
35°	1678	1670	1673	1652	1666	1046
45°	1248	1226	1214	1202	1191	959
55°	796	781	742	723	713	712
65°	441	392	339	379	415	445
75°	248	208	183	226	261	262
85°	91	98	96	110	103	97
90°	0	0	0	0	0	



TEST NUMBER: P293687

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2229.0	2229.0	2229.0	2229.0	2229.0
2.5°	2235.3	2227.4	2231.3	2229.0	2228.2
5°	2228.2	2225.0	2223.4	2220.2	2227.4
7.5°	2213.8	2211.5	2212.2	2213.0	2217.8
10°	2199.5	2195.5	2196.3	2197.9	2200.3
12.5°	2177.2	2174.8	2175.6	2177.2	2182.8
15°	2147.0	2151.0	2151.0	2148.6	2156.5
17.5°	2116.8	2116.0	2119.9	2112.8	2123.9
20°	2074.6	2075.4	2074.6	2075.4	2082.5
22.5°	2026.8	2030.8	2028.4	2028.4	2036.4
25°	1978.3	1975.9	1974.3	1970.3	1975.9
27.5°	1920.2	1915.4	1911.4	1903.5	1907.5
30°	1846.2	1847.0	1836.6	1829.5	1827.9
32.5°	1763.4	1763.4	1753.9	1748.3	1753.1
35°	1677.5	1669.5	1672.7	1652.0	1666.3
37.5°	1584.4	1571.7	1564.5	1557.3	1562.1
40°	1477.8	1461.0	1450.7	1436.4	1444.3
42.5°	1365.5	1344.9	1332.1	1321.8	1325.0
45°	1247.8	1226.3	1213.6	1202.4	1191.3
47.5°	1123.6	1110.1	1103.7	1089.4	1076.7
50°	1002.7	997.9	982.8	970.8	944.6
52.5°	892.1	888.1	864.2	844.3	810.9
55°	795.8	780.7	741.7	722.6	713.0
57.5°	697.9	673.2	626.3	623.9	630.3
60°	604.0	573.8	517.3	530.0	554.7
62.5°	518.8	473.5	419.4	449.6	479.1
65°	440.9	391.5	339.0	378.8	414.6
67.5°	376.4	327.1	273.0	326.3	367.6
70°	325.5	275.3	224.4	285.7	324.7
72.5°	283.3	237.9	195.8	253.9	294.4
75°	248.3	207.7	183.0	226.0	261.0
77.5°	213.3	180.6	175.1	201.3	222.8
80°	173.5	158.4	160.0	176.7	184.6
82.5°	129.7	130.5	134.5	148.0	144.8
85°	90.7	97.9	95.5	109.8	102.7
87.5°	50.1	54.9	51.7	62.9	56.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)