

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: P293877

Luminaire Tested: **24GR-LD5-48-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293877
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-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4491.0 lumens
Efficiency: N/A
Efficacy: 133.8 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

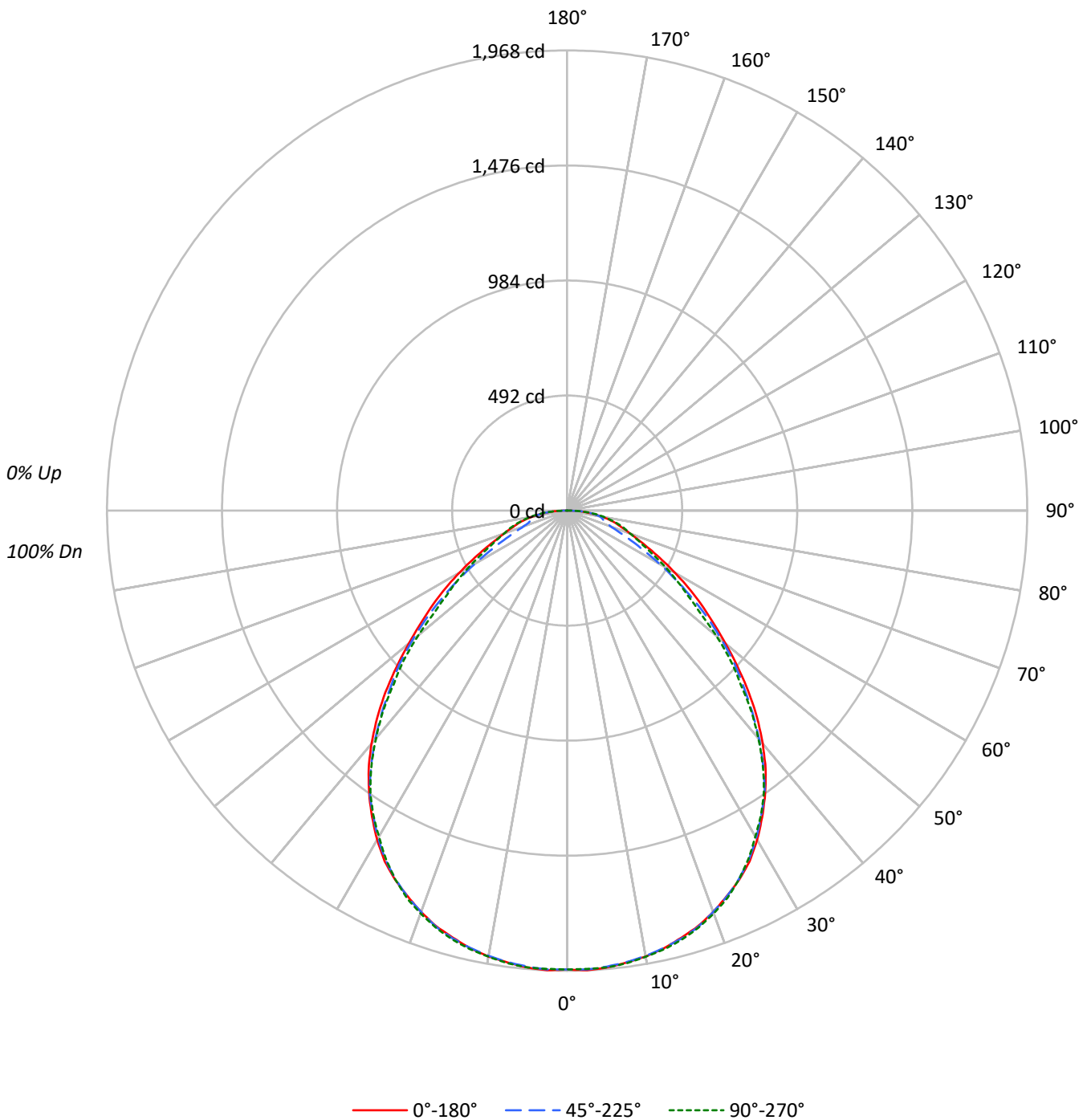
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293877

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P293877

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L92765-W2A1-U-5000K

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°	2640	2640	2640
5°	2650	2644	2649
10°	2646	2642	2647
15°	2633	2638	2645
20°	2615	2615	2625
25°	2586	2581	2583
30°	2525	2512	2500
35°	2426	2419	2410
40°	2285	2243	2233
45°	2090	2033	1996
50°	1848	1811	1741
55°	1643	1532	1472
60°	1431	1225	1314
65°	1236	950	1162
70°	1127	777	1124
75°	1136	837	1195
80°	1183	1091	1259
85°	1233	1298	1396



TEST NUMBER: P293877

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	4.1
10°-20°	533.9	11.9
20°-30°	799.2	17.8
30°-40°	913.2	20.3
40°-50°	825.6	18.4
50°-60°	594.0	13.2
60°-70°	344.3	7.7
70°-80°	204.3	4.5
80°-90°	90.5	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°	1519.2	33.8
0°-40°	2432.4	54.2
0°-60°	3851.9	85.8
0°-90°	4491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1962	1959	1958	1955	1961	186
15°	1890	1894	1894	1892	1899	534
25°	1742	1740	1738	1735	1740	801
35°	1477	1470	1473	1454	1467	921
45°	1099	1080	1068	1059	1049	844
55°	701	687	653	636	628	627
65°	388	345	298	334	365	392
75°	219	183	161	199	230	231
85°	80	86	84	97	90	86
90°	0	0	0	0	0	



TEST NUMBER: P293877

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.4	1962.4	1962.4	1962.4	1962.4
2.5°	1968.0	1961.0	1964.5	1962.4	1961.7
5°	1961.7	1958.9	1957.5	1954.7	1961.0
7.5°	1949.1	1947.0	1947.7	1948.4	1952.6
10°	1936.5	1933.0	1933.7	1935.1	1937.2
12.5°	1916.9	1914.8	1915.5	1916.9	1921.8
15°	1890.2	1893.8	1893.8	1891.6	1898.7
17.5°	1863.6	1862.9	1866.4	1860.1	1869.9
20°	1826.5	1827.2	1826.5	1827.2	1833.5
22.5°	1784.5	1788.0	1785.9	1785.9	1792.9
25°	1741.7	1739.6	1738.2	1734.7	1739.6
27.5°	1690.6	1686.4	1682.9	1675.9	1679.4
30°	1625.4	1626.1	1617.0	1610.7	1609.3
32.5°	1552.6	1552.6	1544.1	1539.2	1543.4
35°	1476.9	1469.9	1472.7	1454.5	1467.1
37.5°	1394.9	1383.7	1377.4	1371.1	1375.3
40°	1301.0	1286.3	1277.2	1264.6	1271.6
42.5°	1202.2	1184.0	1172.8	1163.7	1166.5
45°	1098.6	1079.6	1068.4	1058.6	1048.8
47.5°	989.3	977.4	971.7	959.1	947.9
50°	882.8	878.6	865.3	854.7	831.6
52.5°	785.4	781.9	760.9	743.3	713.9
55°	700.6	687.3	653.0	636.2	627.7
57.5°	614.4	592.7	551.4	549.3	554.9
60°	531.8	505.1	455.4	466.6	488.3
62.5°	456.8	416.9	369.2	395.8	421.8
65°	388.1	344.7	298.5	333.5	365.0
67.5°	331.4	288.0	240.3	287.3	323.7
70°	286.5	242.4	197.6	251.5	285.8
72.5°	249.4	209.5	172.4	223.5	259.2
75°	218.6	182.9	161.1	199.0	229.8
77.5°	187.8	159.0	154.1	177.3	196.2
80°	152.7	139.4	140.8	155.5	162.5
82.5°	114.2	114.9	118.4	130.3	127.5
85°	79.9	86.2	84.1	96.7	90.4
87.5°	44.1	48.3	45.5	55.3	49.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)