

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: P293245

Luminaire Tested: **24GR-LD5-48-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-F125-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4840.0 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

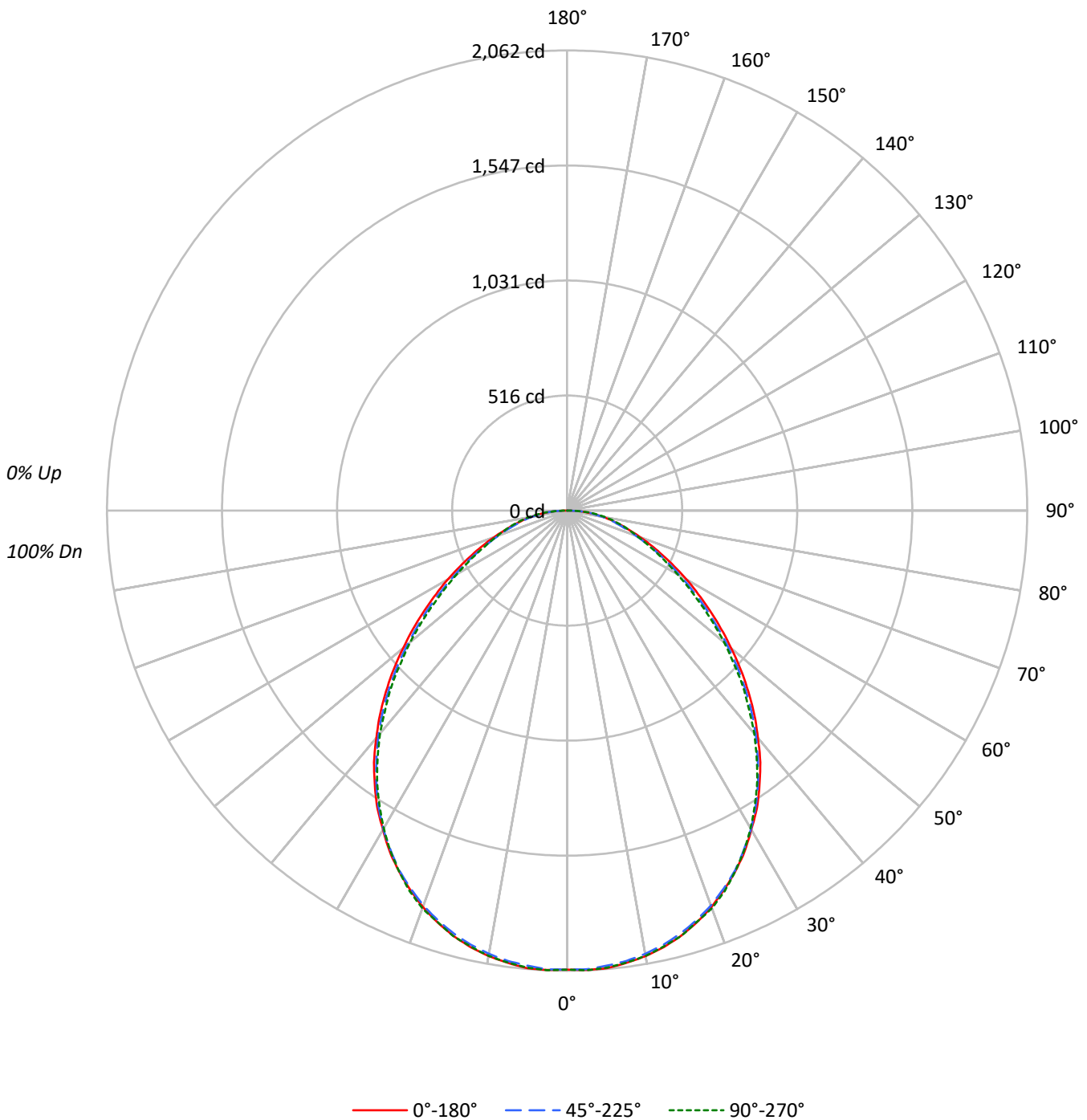
Input Watts (W): 33.201
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293245

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P293245

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L82765-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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2768	2768	2768
5°	2780	2765	2776
10°	2769	2756	2768
15°	2747	2733	2749
20°	2707	2696	2716
25°	2648	2642	2647
30°	2565	2560	2554
35°	2468	2449	2439
40°	2336	2309	2291
45°	2185	2145	2119
50°	2008	1954	1921
55°	1831	1764	1712
60°	1663	1574	1533
65°	1498	1414	1390
70°	1372	1283	1318
75°	1282	1223	1314
80°	1272	1248	1371
85°	1297	1308	1494



TEST NUMBER: P293245

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	4.0
10°-20°	553.5	11.4
20°-30°	817.6	16.9
30°-40°	929.6	19.2
40°-50°	868.1	17.9
50°-60°	675.1	13.9
60°-70°	448.0	9.3
70°-80°	259.2	5.4
80°-90°	94.3	1.9
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°	1565.8	32.4
0°-40°	2495.4	51.6
0°-60°	4038.6	83.4
0°-90°	4840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2057	2057	2057	2057	2057	
5°	2058	2048	2047	2051	2056	195
15°	1972	1962	1962	1961	1974	556
25°	1784	1776	1779	1776	1783	820
35°	1502	1495	1491	1480	1485	938
45°	1148	1139	1127	1113	1114	885
55°	781	769	752	732	730	700
65°	471	456	444	436	436	470
75°	247	241	235	246	253	264
85°	84	82	85	96	97	91
90°	0	0	0	0	0	



TEST NUMBER: P293245

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2057.0	2057.0	2057.0	2057.0	2057.0
2.5°	2060.0	2054.0	2057.0	2054.7	2061.5
5°	2058.5	2047.9	2047.2	2050.9	2055.5
7.5°	2044.1	2032.8	2035.1	2035.1	2042.6
10°	2026.7	2015.4	2016.9	2017.7	2026.0
12.5°	2003.3	1991.9	1992.7	1991.9	2000.3
15°	1972.3	1962.4	1961.7	1960.9	1973.8
17.5°	1934.4	1920.8	1925.4	1926.1	1932.9
20°	1890.6	1880.0	1883.0	1882.2	1896.6
22.5°	1838.4	1830.8	1833.1	1831.6	1845.2
25°	1783.9	1776.3	1779.4	1775.6	1783.1
27.5°	1722.6	1717.3	1714.3	1712.0	1717.3
30°	1650.7	1647.7	1647.7	1637.9	1643.9
32.5°	1582.7	1572.8	1572.8	1569.0	1565.3
35°	1502.5	1494.9	1491.1	1480.5	1485.1
37.5°	1422.3	1404.9	1403.4	1395.0	1395.0
40°	1330.0	1320.1	1314.8	1305.8	1304.3
42.5°	1242.2	1232.4	1223.3	1208.2	1205.1
45°	1148.4	1139.3	1127.2	1112.9	1113.6
47.5°	1055.4	1042.5	1031.1	1013.7	1011.5
50°	959.3	950.2	933.6	918.4	917.7
52.5°	869.3	854.9	839.7	821.6	821.6
55°	780.7	769.4	752.0	732.3	730.0
57.5°	696.0	685.4	665.7	651.4	647.6
60°	618.1	603.0	584.8	572.7	569.7
62.5°	540.2	526.5	512.9	500.8	500.1
65°	470.6	456.2	444.1	435.8	436.5
67.5°	407.8	395.7	382.0	379.8	380.5
70°	348.8	335.9	326.1	331.4	335.1
72.5°	292.8	286.0	279.2	286.7	292.0
75°	246.6	240.6	235.3	245.9	252.7
77.5°	204.3	199.7	199.0	208.0	214.1
80°	164.2	158.9	161.1	171.7	177.0
82.5°	124.8	121.0	121.8	134.7	138.4
85°	84.0	82.5	84.7	96.1	96.8
87.5°	44.6	44.6	46.1	53.0	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)