

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: P293372

Luminaire Tested: **24GR-LD5-48-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293372
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-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4394.0 lumens
Efficiency: N/A
Efficacy: 131.2 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

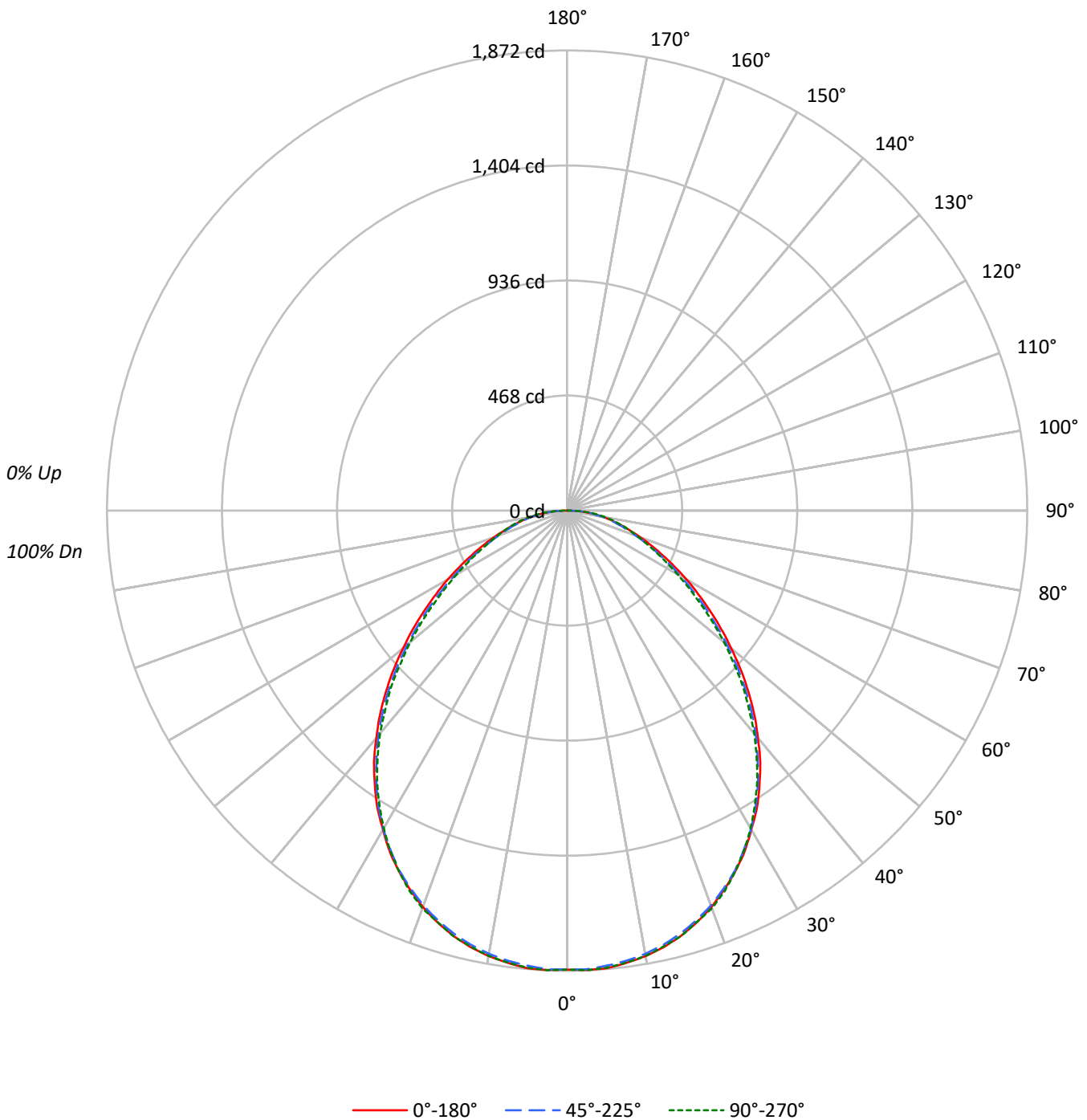
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293372

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P293372

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L92765-W2A1-U-4500K

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	73	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°	2513	2513	2513
5°	2524	2510	2520
10°	2514	2502	2513
15°	2494	2481	2496
20°	2458	2448	2465
25°	2404	2398	2403
30°	2328	2324	2319
35°	2240	2224	2214
40°	2121	2097	2080
45°	1984	1947	1924
50°	1823	1774	1744
55°	1663	1601	1555
60°	1510	1429	1392
65°	1360	1284	1262
70°	1245	1164	1197
75°	1164	1110	1193
80°	1155	1134	1245
85°	1176	1187	1357



TEST NUMBER: P293372

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	4.0
10°-20°	502.5	11.4
20°-30°	742.3	16.9
30°-40°	843.9	19.2
40°-50°	788.1	17.9
50°-60°	612.9	13.9
60°-70°	406.7	9.3
70°-80°	235.3	5.4
80°-90°	85.6	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°	1421.5	32.4
0°-40°	2265.4	51.6
0°-60°	3666.4	83.4
0°-90°	4394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1869	1859	1858	1862	1866	177
15°	1790	1782	1781	1780	1792	504
25°	1620	1613	1615	1612	1619	745
35°	1364	1357	1354	1344	1348	852
45°	1043	1034	1023	1010	1011	803
55°	709	698	683	665	663	636
65°	427	414	403	396	396	427
75°	224	218	214	223	229	239
85°	76	75	77	87	88	83
90°	0	0	0	0	0	



TEST NUMBER: P293372

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1867.4	1867.4	1867.4	1867.4	1867.4
2.5°	1870.2	1864.7	1867.4	1865.4	1871.6
5°	1868.8	1859.2	1858.5	1862.0	1866.1
7.5°	1855.8	1845.5	1847.5	1847.5	1854.4
10°	1840.0	1829.7	1831.0	1831.7	1839.3
12.5°	1818.7	1808.4	1809.1	1808.4	1815.9
15°	1790.5	1781.6	1780.9	1780.2	1791.9
17.5°	1756.2	1743.8	1747.9	1748.6	1754.8
20°	1716.4	1706.7	1709.5	1708.8	1721.8
22.5°	1669.0	1662.1	1664.2	1662.8	1675.1
25°	1619.5	1612.6	1615.4	1612.0	1618.8
27.5°	1563.9	1559.1	1556.3	1554.3	1559.1
30°	1498.6	1495.9	1495.9	1487.0	1492.4
32.5°	1436.8	1427.9	1427.9	1424.5	1421.0
35°	1364.0	1357.1	1353.7	1344.1	1348.2
37.5°	1291.2	1275.4	1274.0	1266.5	1266.5
40°	1207.4	1198.5	1193.7	1185.4	1184.1
42.5°	1127.7	1118.8	1110.6	1096.8	1094.1
45°	1042.6	1034.3	1023.4	1010.3	1011.0
47.5°	958.1	946.4	936.1	920.3	918.3
50°	870.9	862.6	847.5	833.8	833.1
52.5°	789.2	776.1	762.4	745.9	745.9
55°	708.8	698.5	682.7	664.8	662.8
57.5°	631.9	622.3	604.4	591.3	587.9
60°	561.1	547.4	530.9	519.9	517.2
62.5°	490.4	478.0	465.7	454.7	454.0
65°	427.2	414.1	403.2	395.6	396.3
67.5°	370.2	359.2	346.8	344.8	345.5
70°	316.6	304.9	296.0	300.8	304.3
72.5°	265.8	259.6	253.4	260.3	265.1
75°	223.9	218.4	213.6	223.2	229.4
77.5°	185.4	181.3	180.6	188.9	194.4
80°	149.0	144.2	146.3	155.9	160.7
82.5°	113.3	109.9	110.6	122.3	125.7
85°	76.2	74.9	76.9	87.2	87.9
87.5°	40.5	40.5	41.9	48.1	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)