

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: P293375

Luminaire Tested: **24GR-LD5-48-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293375
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4571.0 lumens
Efficiency: N/A
Efficacy: 135.0 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

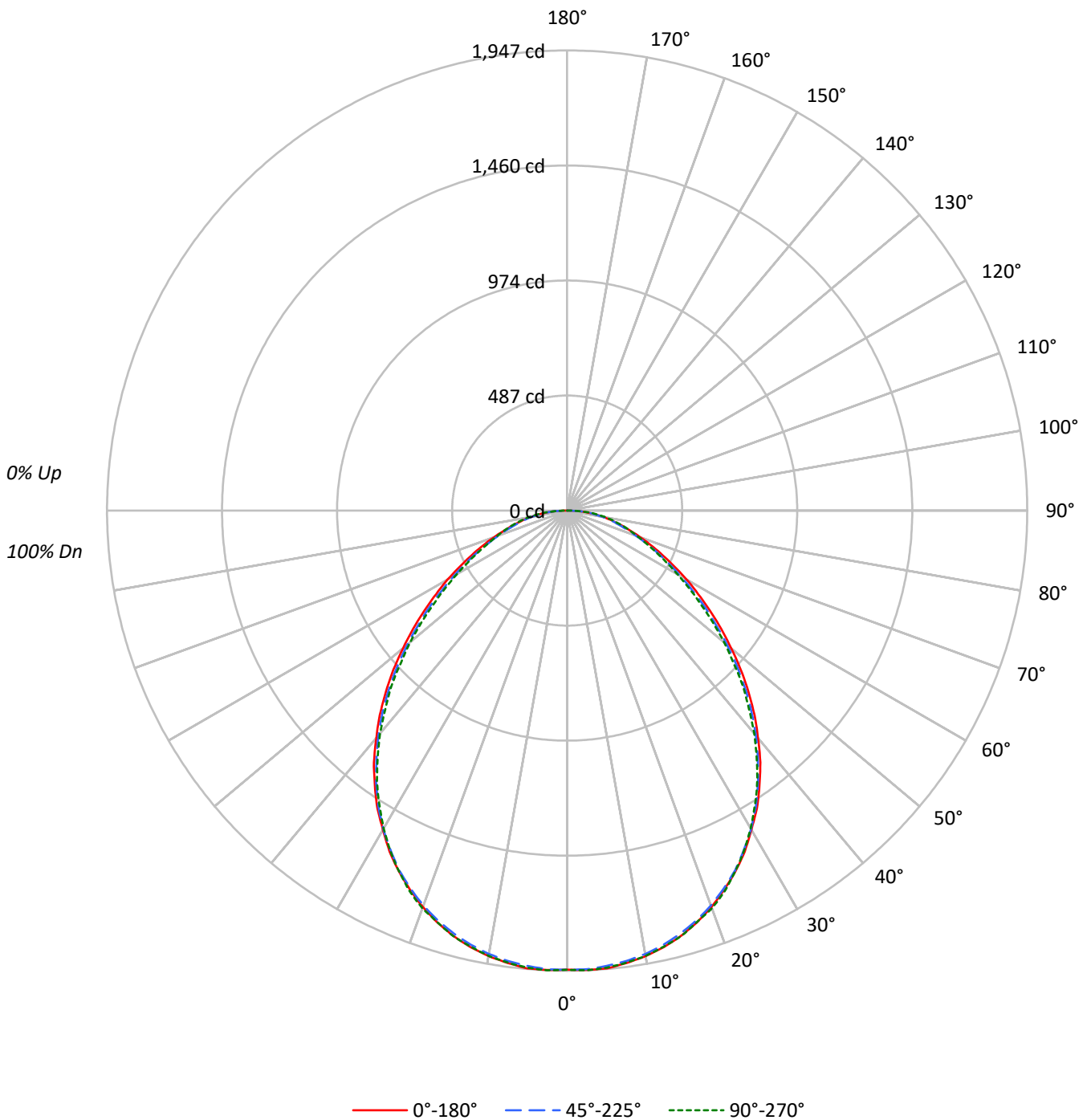
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293375

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P293375

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L92765-W2A1-U-5700K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2614	2614	2614
5°	2626	2611	2622
10°	2615	2602	2614
15°	2595	2581	2597
20°	2557	2546	2565
25°	2501	2495	2500
30°	2422	2418	2412
35°	2331	2313	2304
40°	2206	2181	2164
45°	2064	2026	2001
50°	1896	1846	1814
55°	1730	1666	1617
60°	1571	1486	1448
65°	1415	1335	1313
70°	1296	1211	1245
75°	1211	1155	1240
80°	1201	1179	1296
85°	1224	1235	1413



TEST NUMBER: P293375

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	4.0
10°-20°	522.7	11.4
20°-30°	772.2	16.9
30°-40°	877.9	19.2
40°-50°	819.9	17.9
50°-60°	637.6	13.9
60°-70°	423.0	9.3
70°-80°	244.8	5.4
80°-90°	89.0	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°	1478.8	32.4
0°-40°	2356.7	51.6
0°-60°	3814.1	83.4
0°-90°	4571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1943	1943	1943	1943	1943	
5°	1944	1934	1933	1937	1941	184
15°	1863	1853	1853	1852	1864	525
25°	1685	1678	1680	1677	1684	775
35°	1419	1412	1408	1398	1402	886
45°	1085	1076	1065	1051	1052	836
55°	737	727	710	692	690	661
65°	444	431	419	412	412	444
75°	233	227	222	232	239	249
85°	79	78	80	91	92	86
90°	0	0	0	0	0	



TEST NUMBER: P293375

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1942.7	1942.7	1942.7	1942.7	1942.7
2.5°	1945.5	1939.8	1942.7	1940.5	1947.0
5°	1944.1	1934.1	1933.4	1937.0	1941.2
7.5°	1930.5	1919.8	1922.0	1922.0	1929.1
10°	1914.1	1903.4	1904.8	1905.5	1913.4
12.5°	1891.9	1881.2	1881.9	1881.2	1889.1
15°	1862.7	1853.4	1852.6	1851.9	1864.1
17.5°	1826.9	1814.1	1818.4	1819.1	1825.5
20°	1785.5	1775.5	1778.3	1777.6	1791.2
22.5°	1736.2	1729.0	1731.2	1729.8	1742.6
25°	1684.7	1677.6	1680.5	1676.9	1684.0
27.5°	1626.9	1621.9	1619.0	1616.9	1621.9
30°	1559.0	1556.1	1556.1	1546.9	1552.6
32.5°	1494.7	1485.4	1485.4	1481.8	1478.3
35°	1419.0	1411.8	1408.2	1398.2	1402.5
37.5°	1343.2	1326.8	1325.4	1317.5	1317.5
40°	1256.1	1246.8	1241.8	1233.2	1231.8
42.5°	1173.2	1163.9	1155.3	1141.0	1138.2
45°	1084.6	1076.0	1064.6	1051.0	1051.7
47.5°	996.7	984.6	973.8	957.4	955.3
50°	906.0	897.4	881.7	867.4	866.7
52.5°	820.9	807.4	793.1	775.9	775.9
55°	737.3	726.6	710.2	691.6	689.5
57.5°	657.3	647.3	628.7	615.2	611.6
60°	583.7	569.4	552.3	540.9	538.0
62.5°	510.1	497.3	484.4	473.0	472.3
65°	444.4	430.8	419.4	411.5	412.3
67.5°	385.1	373.7	360.8	358.7	359.4
70°	329.4	317.2	307.9	312.9	316.5
72.5°	276.5	270.1	263.6	270.8	275.8
75°	232.9	227.2	222.2	232.2	238.6
77.5°	192.9	188.6	187.9	196.5	202.2
80°	155.0	150.0	152.2	162.2	167.2
82.5°	117.9	114.3	115.0	127.2	130.8
85°	79.3	77.9	80.0	90.7	91.5
87.5°	42.2	42.2	43.6	50.0	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)