

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: P293624

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4445.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

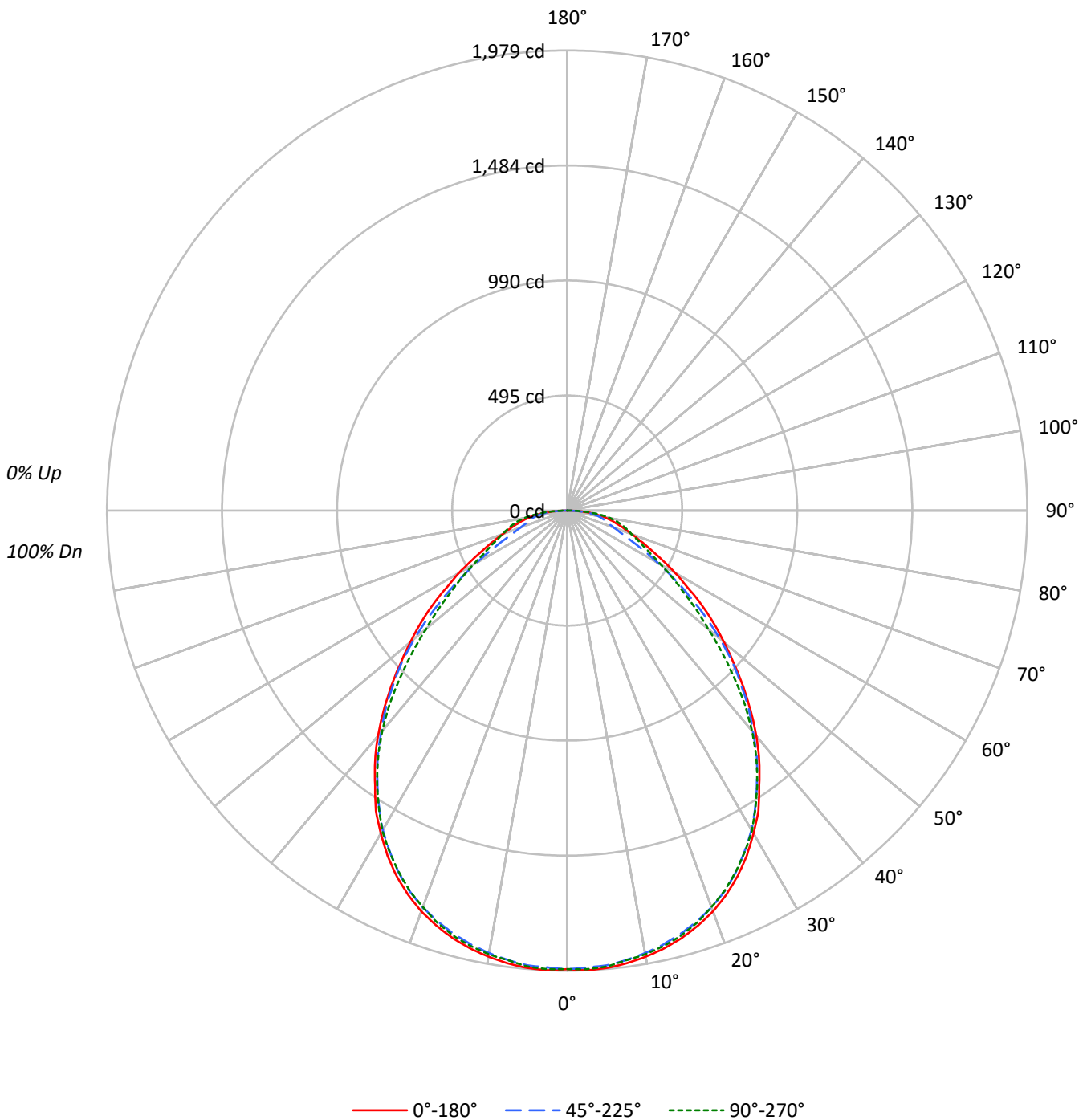
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293624

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

Luminous Intensity Polar Plot





TEST NUMBER: P293624

CATALOG NUMBER: 24GR-LD5-48-A-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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2654	2654	2654
5°	2667	2652	2658
10°	2662	2640	2648
15°	2651	2625	2636
20°	2626	2600	2599
25°	2575	2548	2546
30°	2490	2465	2470
35°	2365	2338	2342
40°	2224	2186	2172
45°	2038	2011	1931
50°	1843	1792	1657
55°	1654	1506	1429
60°	1449	1212	1257
65°	1264	953	1157
70°	1156	832	1156
75°	1157	885	1275
80°	1256	1043	1453
85°	1379	1176	1558



TEST NUMBER: P293624

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	4.2
10°-20°	533.0	12.0
20°-30°	790.3	17.8
30°-40°	891.5	20.1
40°-50°	807.5	18.2
50°-60°	582.6	13.1
60°-70°	347.8	7.8
70°-80°	215.0	4.8
80°-90°	90.6	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°	1510.0	34.0
0°-40°	2401.6	54.0
0°-60°	3791.6	85.3
0°-90°	4445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1974	1972	1963	1961	1968	188
15°	1904	1892	1884	1885	1892	537
25°	1735	1725	1716	1710	1715	797
35°	1440	1438	1424	1424	1426	901
45°	1071	1064	1057	1031	1015	826
55°	705	683	642	610	609	630
65°	397	350	299	340	363	399
75°	222	193	170	212	245	238
85°	89	78	76	100	101	93
90°	0	0	0	0	0	



TEST NUMBER: P293624

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1972.2	1972.2	1972.2	1972.2	1972.2
2.5°	1979.1	1973.6	1966.7	1970.8	1974.3
5°	1974.3	1971.5	1963.3	1961.2	1968.1
7.5°	1964.0	1957.1	1949.5	1953.0	1950.2
10°	1948.2	1942.0	1932.4	1933.1	1937.9
12.5°	1928.9	1921.4	1911.1	1913.8	1917.9
15°	1903.5	1891.9	1884.3	1885.0	1892.5
17.5°	1871.3	1862.3	1852.7	1854.8	1858.2
20°	1834.2	1829.4	1815.6	1811.5	1814.9
22.5°	1787.5	1778.5	1771.0	1768.9	1769.6
25°	1734.6	1725.0	1716.1	1709.9	1714.7
27.5°	1672.8	1664.6	1652.9	1650.8	1654.9
30°	1602.8	1596.6	1586.3	1583.5	1589.7
32.5°	1531.3	1521.0	1506.6	1506.6	1508.0
35°	1440.0	1437.9	1423.5	1424.2	1425.6
37.5°	1357.6	1348.0	1339.7	1331.5	1335.6
40°	1266.3	1255.3	1244.3	1238.8	1236.7
42.5°	1168.1	1159.8	1155.0	1135.1	1130.3
45°	1071.2	1064.4	1056.8	1030.7	1014.9
47.5°	972.4	971.0	964.8	918.8	903.0
50°	880.3	878.3	856.3	807.6	791.8
52.5°	793.1	779.4	750.6	702.5	699.7
55°	705.2	683.3	642.1	610.5	609.1
57.5°	612.5	586.4	544.6	527.4	536.3
60°	538.4	498.5	450.5	452.5	467.0
62.5°	461.5	416.8	369.4	390.0	407.2
65°	396.9	349.5	299.4	339.9	363.3
67.5°	340.6	296.7	248.6	302.8	325.5
70°	293.9	258.2	211.5	268.5	293.9
72.5°	256.8	223.9	187.5	241.0	270.6
75°	222.5	193.0	170.3	212.2	245.2
77.5°	193.0	164.1	153.8	187.5	219.7
80°	162.1	136.0	134.6	163.4	187.5
82.5°	126.4	108.5	108.5	136.7	151.1
85°	89.3	78.3	76.2	99.6	100.9
87.5°	46.0	43.9	39.8	52.2	52.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)