

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: P293494

Luminaire Tested: **24GR-LD5-48-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293494
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-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4502.0 lumens
Efficiency: N/A
Efficacy: 137.1 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

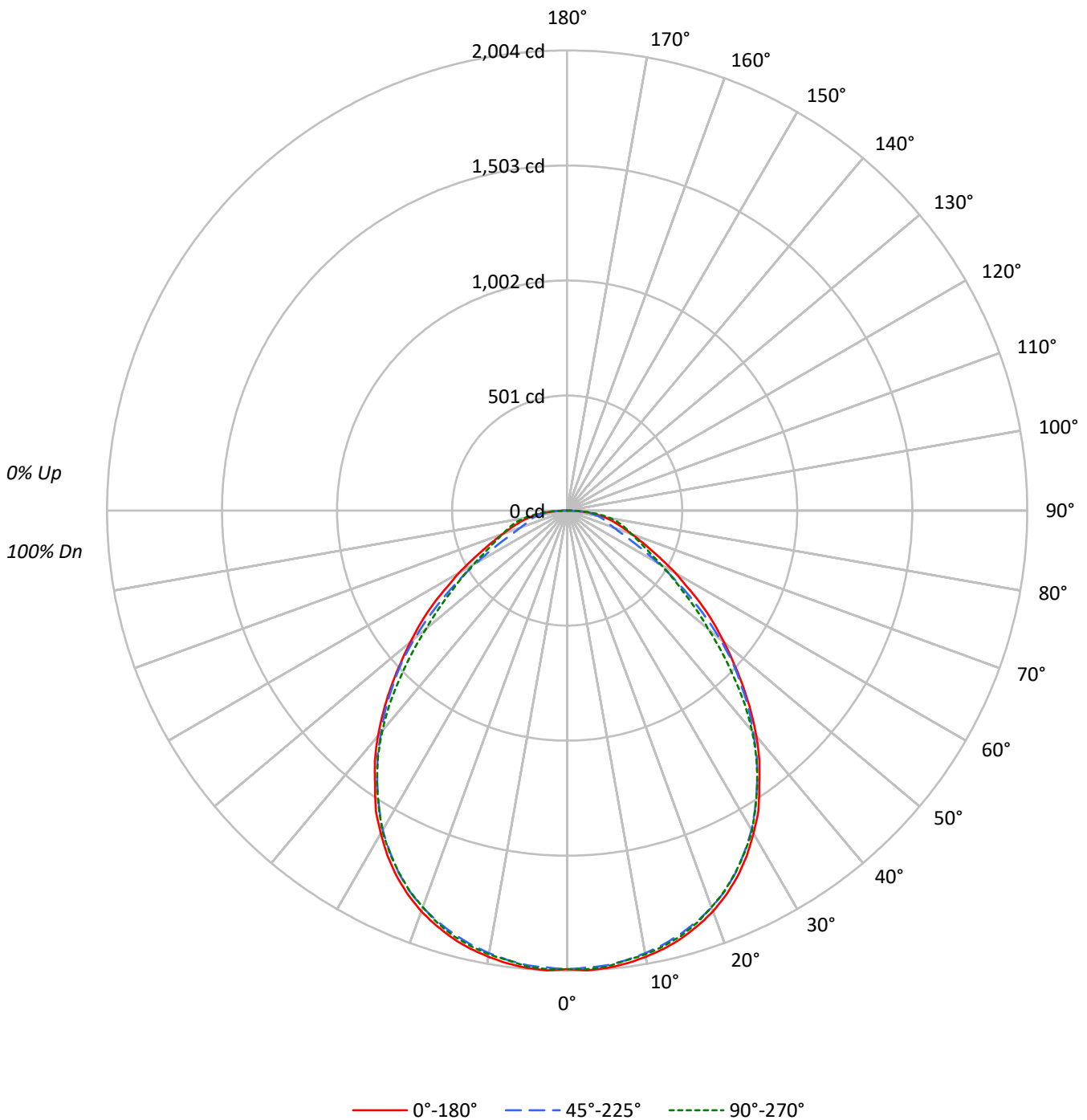
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293494

CATALOG NUMBER: 24GR-LD5-48-A-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P293494

CATALOG NUMBER: 24GR-LD5-48-A-UNV-L82765-W2A1-U-2700K

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°	2688	2688	2688
5°	2701	2686	2692
10°	2696	2674	2682
15°	2685	2658	2670
20°	2660	2633	2632
25°	2608	2580	2578
30°	2522	2496	2502
35°	2396	2368	2372
40°	2253	2214	2200
45°	2065	2037	1956
50°	1866	1815	1679
55°	1676	1525	1447
60°	1467	1228	1273
65°	1280	965	1171
70°	1171	843	1171
75°	1171	897	1291
80°	1272	1056	1471
85°	1396	1192	1578



TEST NUMBER: P293494

CATALOG NUMBER: 24GR-LD5-48-A-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	4.2
10°-20°	539.8	12.0
20°-30°	800.4	17.8
30°-40°	903.0	20.1
40°-50°	817.8	18.2
50°-60°	590.0	13.1
60°-70°	352.3	7.8
70°-80°	217.7	4.8
80°-90°	91.7	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°	1529.4	34.0
0°-40°	2432.4	54.0
0°-60°	3840.2	85.3
0°-90°	4502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1998	1998	1998	1998	1998	
5°	2000	1997	1988	1986	1993	190
15°	1928	1916	1908	1909	1917	543
25°	1757	1747	1738	1732	1737	807
35°	1458	1456	1442	1442	1444	913
45°	1085	1078	1070	1044	1028	836
55°	714	692	650	618	617	638
65°	402	354	303	344	368	404
75°	225	195	172	215	248	241
85°	90	79	77	101	102	94
90°	0	0	0	0	0	



TEST NUMBER: P293494

CATALOG NUMBER: 24GR-LD5-48-A-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1997.5	1997.5	1997.5	1997.5	1997.5
2.5°	2004.4	1998.9	1991.9	1996.1	1999.6
5°	1999.6	1996.8	1988.4	1986.4	1993.3
7.5°	1989.1	1982.2	1974.5	1978.0	1975.2
10°	1973.1	1966.9	1957.1	1957.8	1962.7
12.5°	1953.7	1946.0	1935.6	1938.4	1942.5
15°	1927.9	1916.1	1908.5	1909.2	1916.8
17.5°	1895.2	1886.2	1876.5	1878.6	1882.0
20°	1857.7	1852.8	1838.9	1834.7	1838.2
22.5°	1810.4	1801.4	1793.7	1791.6	1792.3
25°	1756.8	1747.1	1738.1	1731.8	1736.7
27.5°	1694.2	1685.9	1674.1	1672.0	1676.2
30°	1623.3	1617.0	1606.6	1603.8	1610.1
32.5°	1551.0	1540.5	1525.9	1525.9	1527.3
35°	1458.5	1456.4	1441.8	1442.5	1443.9
37.5°	1375.0	1365.3	1356.9	1348.6	1352.8
40°	1282.5	1271.4	1260.3	1254.7	1252.6
42.5°	1183.1	1174.7	1169.8	1149.7	1144.8
45°	1085.0	1078.0	1070.4	1044.0	1028.0
47.5°	984.8	983.4	977.2	930.6	914.6
50°	891.6	889.5	867.3	817.9	801.9
52.5°	803.3	789.4	760.2	711.5	708.7
55°	714.3	692.0	650.3	618.3	616.9
57.5°	620.4	594.0	551.5	534.1	543.2
60°	545.3	504.9	456.3	458.3	472.9
62.5°	467.4	422.2	374.2	395.0	412.4
65°	402.0	354.0	303.2	344.3	367.9
67.5°	345.0	300.5	251.8	306.7	329.7
70°	297.7	261.5	214.2	271.9	297.7
72.5°	260.1	226.7	189.9	244.1	274.0
75°	225.3	195.4	172.5	214.9	248.3
77.5°	195.4	166.2	155.8	189.9	222.6
80°	164.1	137.7	136.3	165.5	189.9
82.5°	128.0	109.9	109.9	138.4	153.0
85°	90.4	79.3	77.2	100.8	102.2
87.5°	46.6	44.5	40.3	52.9	52.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)