

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: P293639

Luminaire Tested: **24GR-LD5-64-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293639
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-LD5-64-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5275.0 lumens
Efficiency: N/A
Efficacy: 116.0 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

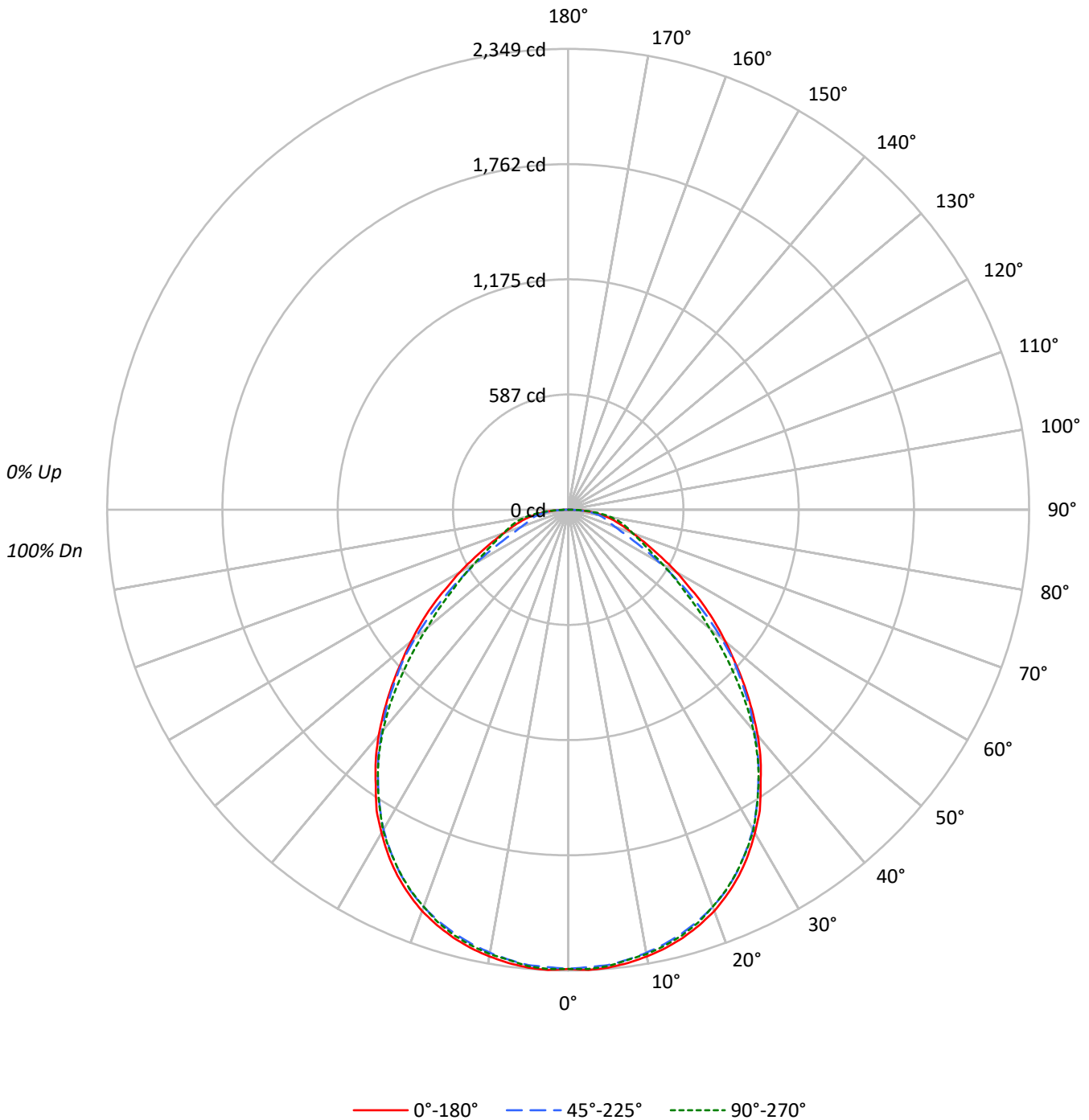
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293639

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P293639

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L92765-W2A1-U-3000K

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°	3149	3149	3149
5°	3164	3147	3155
10°	3159	3133	3142
15°	3147	3115	3128
20°	3117	3085	3084
25°	3056	3023	3021
30°	2955	2925	2931
35°	2807	2775	2779
40°	2639	2594	2578
45°	2419	2387	2292
50°	2187	2127	1967
55°	1963	1787	1696
60°	1719	1439	1491
65°	1500	1131	1372
70°	1372	987	1372
75°	1372	1051	1512
80°	1490	1237	1724
85°	1635	1397	1849



TEST NUMBER: P293639

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	4.2
10°-20°	632.5	12.0
20°-30°	937.9	17.8
30°-40°	1058.0	20.1
40°-50°	958.3	18.2
50°-60°	691.3	13.1
60°-70°	412.8	7.8
70°-80°	255.1	4.8
80°-90°	107.5	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°	1792.0	34.0
0°-40°	2850.0	54.0
0°-60°	4499.6	85.3
0°-90°	5275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2340	2340	2340	2340	2340	
5°	2343	2340	2330	2327	2336	223
15°	2259	2245	2236	2237	2246	637
25°	2058	2047	2036	2029	2035	946
35°	1709	1706	1689	1690	1692	1069
45°	1271	1263	1254	1223	1204	980
55°	837	811	762	724	723	747
65°	471	415	355	403	431	474
75°	264	229	202	252	291	282
85°	106	93	90	118	120	111
90°	0	0	0	0	0	



TEST NUMBER: P293639

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2340.5	2340.5	2340.5	2340.5	2340.5
2.5°	2348.6	2342.1	2333.9	2338.8	2342.9
5°	2342.9	2339.6	2329.9	2327.4	2335.6
7.5°	2330.7	2322.5	2313.6	2317.6	2314.4
10°	2311.9	2304.6	2293.2	2294.0	2299.7
12.5°	2289.1	2280.2	2267.9	2271.2	2276.1
15°	2259.0	2245.1	2236.1	2237.0	2245.9
17.5°	2220.7	2210.1	2198.7	2201.1	2205.2
20°	2176.7	2171.0	2154.7	2149.8	2153.8
22.5°	2121.2	2110.6	2101.7	2099.2	2100.1
25°	2058.5	2047.1	2036.5	2029.2	2034.9
27.5°	1985.2	1975.4	1961.5	1959.1	1964.0
30°	1902.0	1894.7	1882.5	1879.2	1886.5
32.5°	1817.3	1805.1	1787.9	1787.9	1789.6
35°	1708.9	1706.4	1689.3	1690.1	1691.8
37.5°	1611.1	1599.7	1589.9	1580.1	1585.0
40°	1502.7	1489.7	1476.6	1470.1	1467.7
42.5°	1386.2	1376.4	1370.7	1347.1	1341.4
45°	1271.3	1263.1	1254.2	1223.2	1204.5
47.5°	1153.9	1152.3	1145.0	1090.4	1071.6
50°	1044.7	1042.3	1016.2	958.3	939.6
52.5°	941.2	924.9	890.7	833.7	830.4
55°	836.9	810.8	762.0	724.5	722.8
57.5°	726.9	695.9	646.2	625.9	636.5
60°	638.9	591.6	534.6	537.0	554.1
62.5°	547.6	494.7	438.4	462.9	483.2
65°	471.0	414.8	355.3	403.4	431.1
67.5°	404.2	352.0	295.0	359.4	386.3
70°	348.8	306.4	251.0	318.6	348.8
72.5°	304.8	265.7	222.5	286.0	321.1
75°	264.0	229.0	202.1	251.8	290.9
77.5°	229.0	194.8	182.5	222.5	260.8
80°	192.3	161.4	159.7	194.0	222.5
82.5°	149.9	128.8	128.8	162.2	179.3
85°	105.9	92.9	90.5	118.2	119.8
87.5°	54.6	52.2	47.3	61.9	61.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)