

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: P293013

Luminaire Tested: **24GR-LD5-64-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F1-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6589.0 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

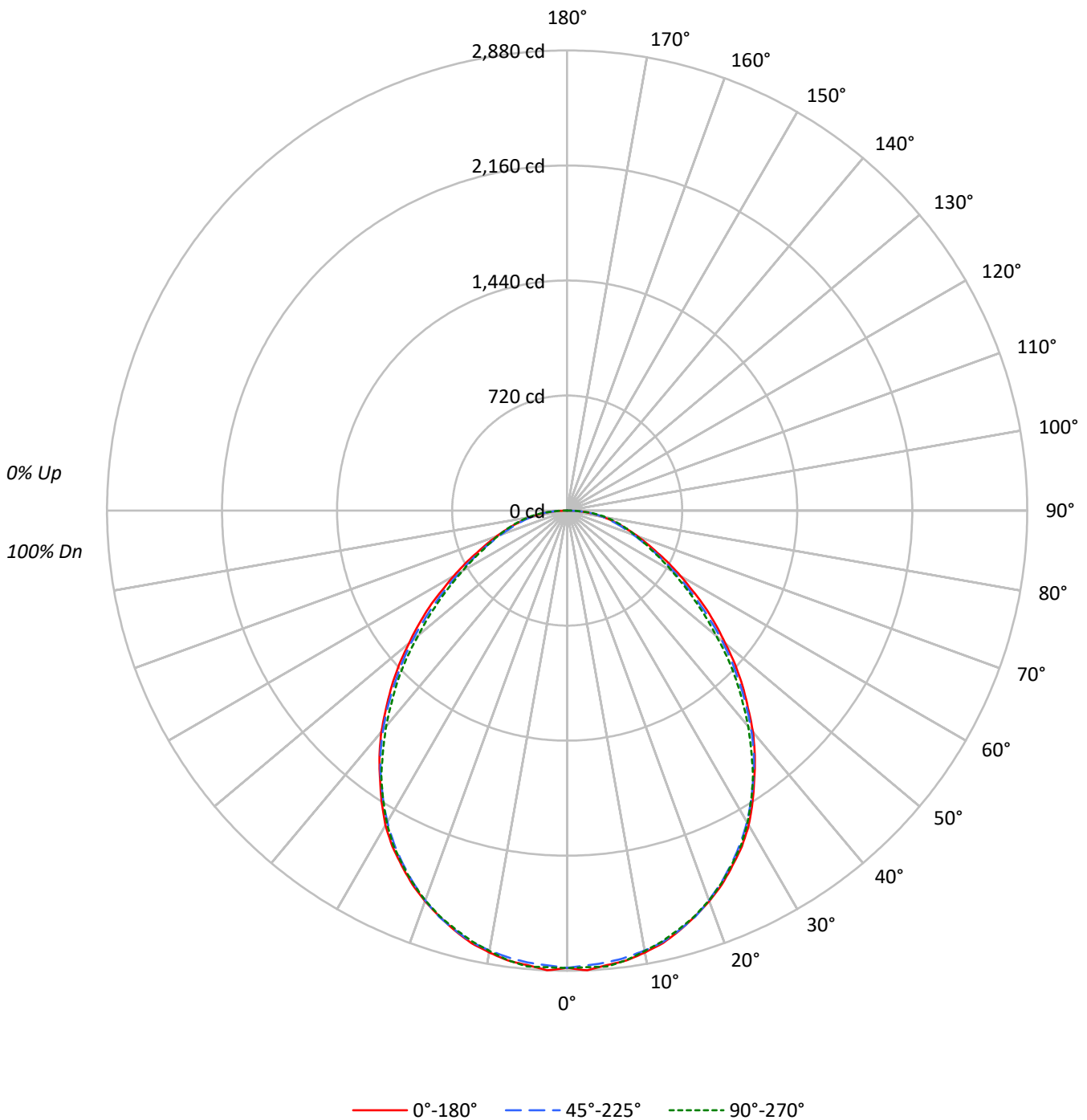
Input Watts (W): 47.058
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293013

CATALOG NUMBER: 24GR-LD5-64-F1-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P293013

CATALOG NUMBER: 24GR-LD5-64-F1-UNV-L82765-W2A1-U-5000K

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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	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	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3851	3851	3851
5°	3856	3834	3868
10°	3836	3819	3823
15°	3788	3784	3775
20°	3725	3717	3717
25°	3638	3617	3626
30°	3532	3496	3507
35°	3355	3339	3331
40°	3177	3149	3094
45°	2953	2901	2845
50°	2705	2646	2546
55°	2471	2359	2279
60°	2201	2095	2041
65°	1982	1878	1852
70°	1839	1727	1796
75°	1759	1681	1823
80°	1759	1759	1948
85°	1825	1846	2056



TEST NUMBER: P293013

CATALOG NUMBER: 24GR-LD5-64-F1-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	4.1
10°-20°	764.9	11.6
20°-30°	1122.6	17.0
30°-40°	1269.2	19.3
40°-50°	1173.0	17.8
50°-60°	903.7	13.7
60°-70°	598.4	9.1
70°-80°	356.2	5.4
80°-90°	130.5	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°	2157.8	32.7
0°-40°	3427.0	52.0
0°-60°	5503.8	83.5
0°-90°	6589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2862	2862	2862	2862	2862	
5°	2855	2855	2839	2840	2864	271
15°	2719	2714	2717	2715	2710	766
25°	2450	2444	2437	2434	2442	1128
35°	2043	2040	2033	2024	2028	1278
45°	1552	1541	1525	1498	1495	1196
55°	1053	1032	1006	978	972	939
65°	622	613	590	584	582	624
75°	338	330	323	338	351	361
85°	118	111	120	132	133	126
90°	0	0	0	0	0	



TEST NUMBER: P293013

CATALOG NUMBER: 24GR-LD5-64-F1-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2862.1	2862.1	2862.1	2862.1	2862.1
2.5°	2879.8	2864.8	2848.5	2848.5	2860.7
5°	2855.3	2855.3	2839.0	2840.4	2863.5
7.5°	2840.4	2832.2	2821.3	2821.3	2839.0
10°	2807.7	2800.9	2795.5	2792.8	2798.2
12.5°	2772.4	2761.5	2765.6	2761.5	2760.2
15°	2719.4	2714.0	2716.7	2715.3	2709.9
17.5°	2662.3	2659.6	2665.0	2655.5	2659.6
20°	2601.2	2593.0	2595.7	2590.3	2595.7
22.5°	2531.9	2526.4	2519.6	2512.8	2523.7
25°	2450.3	2443.5	2436.7	2434.0	2442.2
27.5°	2368.8	2357.9	2348.4	2345.7	2357.9
30°	2273.6	2261.4	2250.5	2247.8	2257.3
32.5°	2160.8	2158.1	2144.5	2139.1	2143.2
35°	2042.6	2039.9	2033.1	2023.6	2027.7
37.5°	1929.8	1928.5	1918.9	1902.6	1891.8
40°	1808.9	1799.3	1792.6	1769.4	1761.3
42.5°	1675.7	1673.0	1660.7	1634.9	1625.4
45°	1552.0	1541.1	1524.8	1497.6	1494.9
47.5°	1424.3	1409.3	1394.4	1360.4	1359.0
50°	1292.4	1281.6	1263.9	1229.9	1216.3
52.5°	1170.1	1155.2	1130.7	1098.1	1091.3
55°	1053.2	1031.5	1005.7	978.5	971.7
57.5°	928.2	918.7	887.4	865.7	857.5
60°	818.1	810.0	778.7	758.3	758.3
62.5°	718.9	706.7	679.5	665.9	665.9
65°	622.4	612.9	589.8	584.4	581.7
67.5°	539.5	527.3	511.0	509.6	516.4
70°	467.5	452.6	439.0	452.6	456.6
72.5°	399.6	390.0	377.8	395.5	403.6
75°	338.4	330.2	323.4	338.4	350.6
77.5°	282.7	274.5	274.5	290.8	301.7
80°	227.0	221.5	227.0	240.5	251.4
82.5°	174.0	169.9	176.7	190.3	197.1
85°	118.2	111.4	119.6	131.8	133.2
87.5°	55.7	54.4	59.8	68.0	66.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)