

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: P293263

Luminaire Tested: **24GR-LD5-64-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293263
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-LD5-64-F125-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6387.0 lumens
Efficiency: N/A
Efficacy: 137.4 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

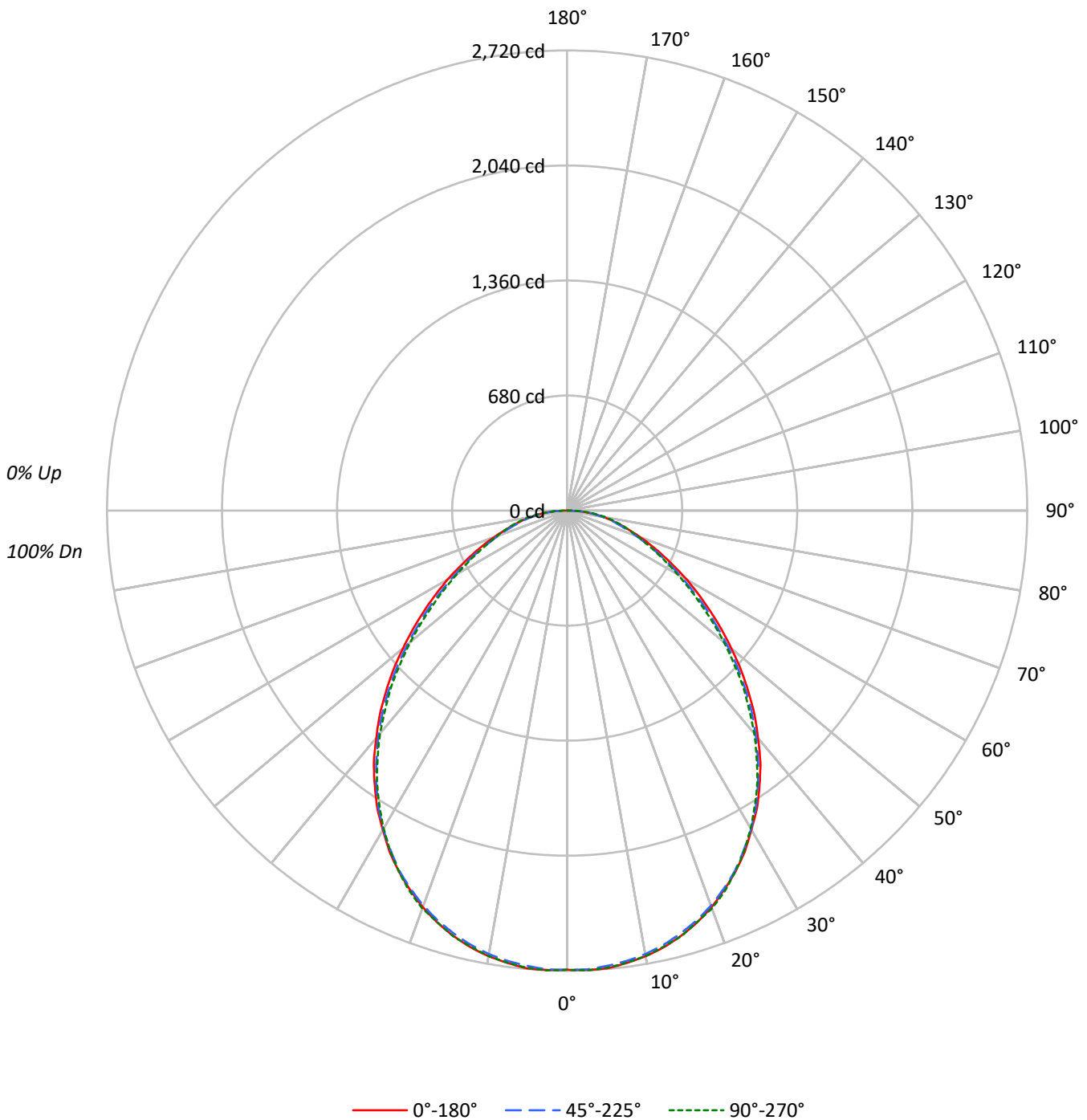
Input Watts (W): 46.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293263

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P293263

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L82765-W2A1-U-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3652	3652	3652
5°	3669	3649	3664
10°	3654	3636	3653
15°	3625	3606	3628
20°	3572	3558	3584
25°	3495	3486	3493
30°	3384	3378	3370
35°	3257	3232	3219
40°	3083	3048	3023
45°	2884	2830	2796
50°	2650	2579	2535
55°	2417	2328	2260
60°	2195	2077	2023
65°	1977	1866	1834
70°	1810	1693	1740
75°	1692	1614	1733
80°	1678	1647	1810
85°	1711	1726	1973



TEST NUMBER: P293263

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	4.0
10°-20°	730.4	11.4
20°-30°	1079.0	16.9
30°-40°	1226.7	19.2
40°-50°	1145.6	17.9
50°-60°	890.9	13.9
60°-70°	591.1	9.3
70°-80°	342.1	5.4
80°-90°	124.4	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°	2066.3	32.4
0°-40°	3293.0	51.6
0°-60°	5329.4	83.4
0°-90°	6387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2714	2714	2714	2714	2714	
5°	2716	2702	2702	2706	2712	258
15°	2603	2590	2589	2588	2605	733
25°	2354	2344	2348	2343	2353	1082
35°	1983	1973	1968	1954	1960	1238
45°	1516	1504	1488	1469	1470	1168
55°	1030	1015	992	966	963	924
65°	621	602	586	575	576	621
75°	326	318	310	324	333	348
85°	111	109	112	127	128	120
90°	0	0	0	0	0	



TEST NUMBER: P293263

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2714.5	2714.5	2714.5	2714.5	2714.5
2.5°	2718.5	2710.5	2714.5	2711.5	2720.5
5°	2716.5	2702.5	2701.5	2706.5	2712.5
7.5°	2697.5	2682.5	2685.5	2685.5	2695.5
10°	2674.5	2659.6	2661.6	2662.6	2673.5
12.5°	2643.6	2628.6	2629.6	2628.6	2639.6
15°	2602.7	2589.7	2588.7	2587.7	2604.7
17.5°	2552.7	2534.8	2540.8	2541.8	2550.7
20°	2494.8	2480.9	2484.9	2483.9	2502.8
22.5°	2426.0	2416.0	2419.0	2417.0	2434.9
25°	2354.1	2344.1	2348.1	2343.1	2353.1
27.5°	2273.2	2266.2	2262.2	2259.2	2266.2
30°	2178.4	2174.4	2174.4	2161.4	2169.4
32.5°	2088.5	2075.5	2075.5	2070.5	2065.6
35°	1982.7	1972.7	1967.7	1953.7	1959.7
37.5°	1876.9	1853.9	1851.9	1840.9	1840.9
40°	1755.1	1742.1	1735.1	1723.1	1721.1
42.5°	1639.3	1626.3	1614.3	1594.3	1590.3
45°	1515.5	1503.5	1487.5	1468.6	1469.5
47.5°	1392.7	1375.7	1360.7	1337.8	1334.8
50°	1265.9	1253.9	1231.9	1212.0	1211.0
52.5°	1147.1	1128.1	1108.2	1084.2	1084.2
55°	1030.3	1015.3	992.3	966.4	963.4
57.5°	918.5	904.5	878.5	859.6	854.6
60°	815.6	795.7	771.7	755.7	751.7
62.5°	712.8	694.8	676.9	660.9	659.9
65°	621.0	602.0	586.0	575.0	576.0
67.5°	538.1	522.1	504.2	501.2	502.2
70°	460.2	443.3	430.3	437.3	442.3
72.5°	386.4	377.4	368.4	378.4	385.4
75°	325.5	317.5	310.5	324.5	333.4
77.5°	269.6	263.6	262.6	274.5	282.5
80°	216.6	209.7	212.6	226.6	233.6
82.5°	164.7	159.7	160.7	177.7	182.7
85°	110.8	108.8	111.8	126.8	127.8
87.5°	58.9	58.9	60.9	69.9	66.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)