

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: P293193

Luminaire Tested: **24GR-LD5-64-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293193  
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-L83050-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: 6719.0 lumens  
Efficiency: N/A  
Efficacy: 143.1 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

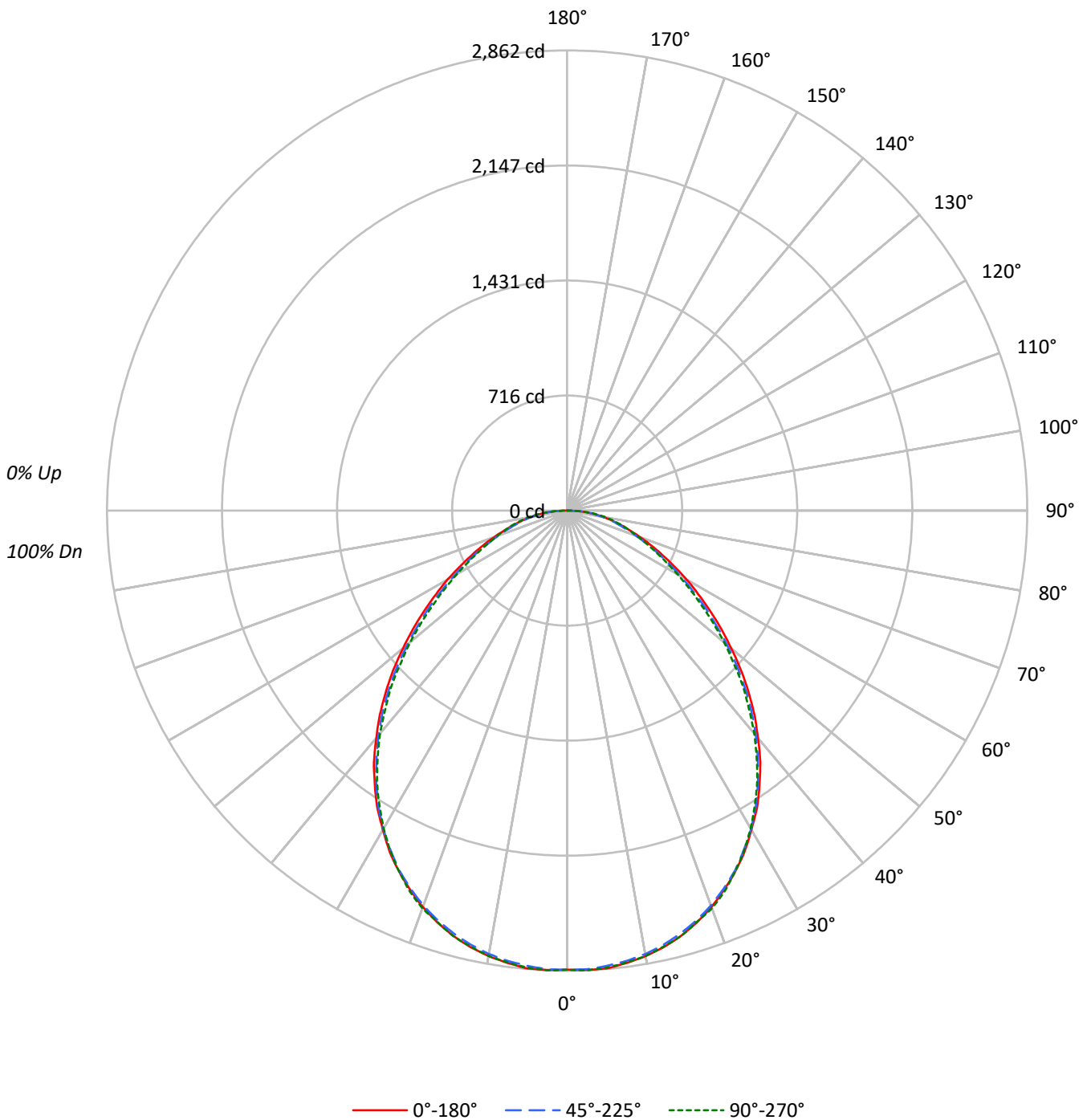
Input Watts (W): 46.965  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293193

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L83050-W2A1-U-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P293193

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L83050-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°	3842	3842	3842
5°	3860	3838	3854
10°	3844	3825	3843
15°	3814	3793	3817
20°	3758	3743	3770
25°	3676	3667	3675
30°	3560	3554	3546
35°	3426	3400	3386
40°	3243	3206	3180
45°	3033	2978	2942
50°	2788	2713	2667
55°	2542	2449	2377
60°	2309	2185	2128
65°	2080	1963	1929
70°	1905	1781	1830
75°	1780	1698	1824
80°	1766	1733	1905
85°	1800	1815	2075



TEST NUMBER: P293193

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L83050-W2A1-U-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.3	4.0
10°-20°	768.3	11.4
20°-30°	1135.1	16.9
30°-40°	1290.5	19.2
40°-50°	1205.1	17.9
50°-60°	937.2	13.9
60°-70°	621.9	9.3
70°-80°	359.9	5.4
80°-90°	130.9	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°	2173.7	32.4
0°-40°	3464.1	51.6
0°-60°	5606.4	83.4
0°-90°	6719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6719.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2856	2856	2856	2856	2856	
5°	2858	2843	2842	2847	2854	271
15°	2738	2724	2723	2722	2740	771
25°	2476	2466	2470	2465	2475	1139
35°	2086	2075	2070	2055	2062	1302
45°	1594	1582	1565	1545	1546	1228
55°	1084	1068	1044	1017	1014	972
65°	653	633	616	605	606	653
75°	342	334	327	341	351	366
85°	117	114	118	133	134	127
90°	0	0	0	0	0	



TEST NUMBER: P293193

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L83050-W2A1-U-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2855.6	2855.6	2855.6	2855.6	2855.6
2.5°	2859.8	2851.4	2855.6	2852.4	2861.9
5°	2857.7	2843.0	2841.9	2847.2	2853.5
7.5°	2837.7	2822.0	2825.1	2825.1	2835.6
10°	2813.6	2797.8	2799.9	2801.0	2812.5
12.5°	2781.0	2765.3	2766.3	2765.3	2776.8
15°	2737.9	2724.3	2723.2	2722.2	2740.0
17.5°	2685.4	2666.5	2672.8	2673.9	2683.3
20°	2624.5	2609.8	2614.0	2613.0	2632.9
22.5°	2552.1	2541.6	2544.7	2542.6	2561.5
25°	2476.4	2465.9	2470.1	2464.9	2475.4
27.5°	2391.4	2384.0	2379.8	2376.7	2384.0
30°	2291.6	2287.4	2287.4	2273.7	2282.1
32.5°	2197.1	2183.4	2183.4	2178.2	2172.9
35°	2085.8	2075.3	2070.0	2055.3	2061.6
37.5°	1974.4	1950.3	1948.2	1936.6	1936.6
40°	1846.3	1832.7	1825.3	1812.7	1810.6
42.5°	1724.5	1710.8	1698.2	1677.2	1673.0
45°	1594.2	1581.6	1564.8	1544.9	1545.9
47.5°	1465.1	1447.2	1431.5	1407.3	1404.2
50°	1331.7	1319.1	1296.0	1275.0	1273.9
52.5°	1206.7	1186.8	1165.8	1140.5	1140.5
55°	1083.8	1068.1	1043.9	1016.6	1013.5
57.5°	966.2	951.5	924.2	904.2	899.0
60°	858.0	837.0	811.8	795.0	790.8
62.5°	749.9	731.0	712.1	695.3	694.2
65°	653.2	633.3	616.5	604.9	606.0
67.5°	566.1	549.3	530.4	527.2	528.3
70°	484.2	466.3	452.6	460.0	465.3
72.5°	406.4	397.0	387.5	398.0	405.4
75°	342.4	334.0	326.6	341.3	350.8
77.5°	283.6	277.3	276.2	288.8	297.2
80°	227.9	220.5	223.7	238.4	245.8
82.5°	173.3	168.0	169.1	186.9	192.2
85°	116.6	114.5	117.6	133.4	134.4
87.5°	62.0	62.0	64.1	73.5	70.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)