

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: P293404

Luminaire Tested: **24GR-LD5-85-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293404  
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-LD5-85-F125-UNV-L92765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6495.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 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

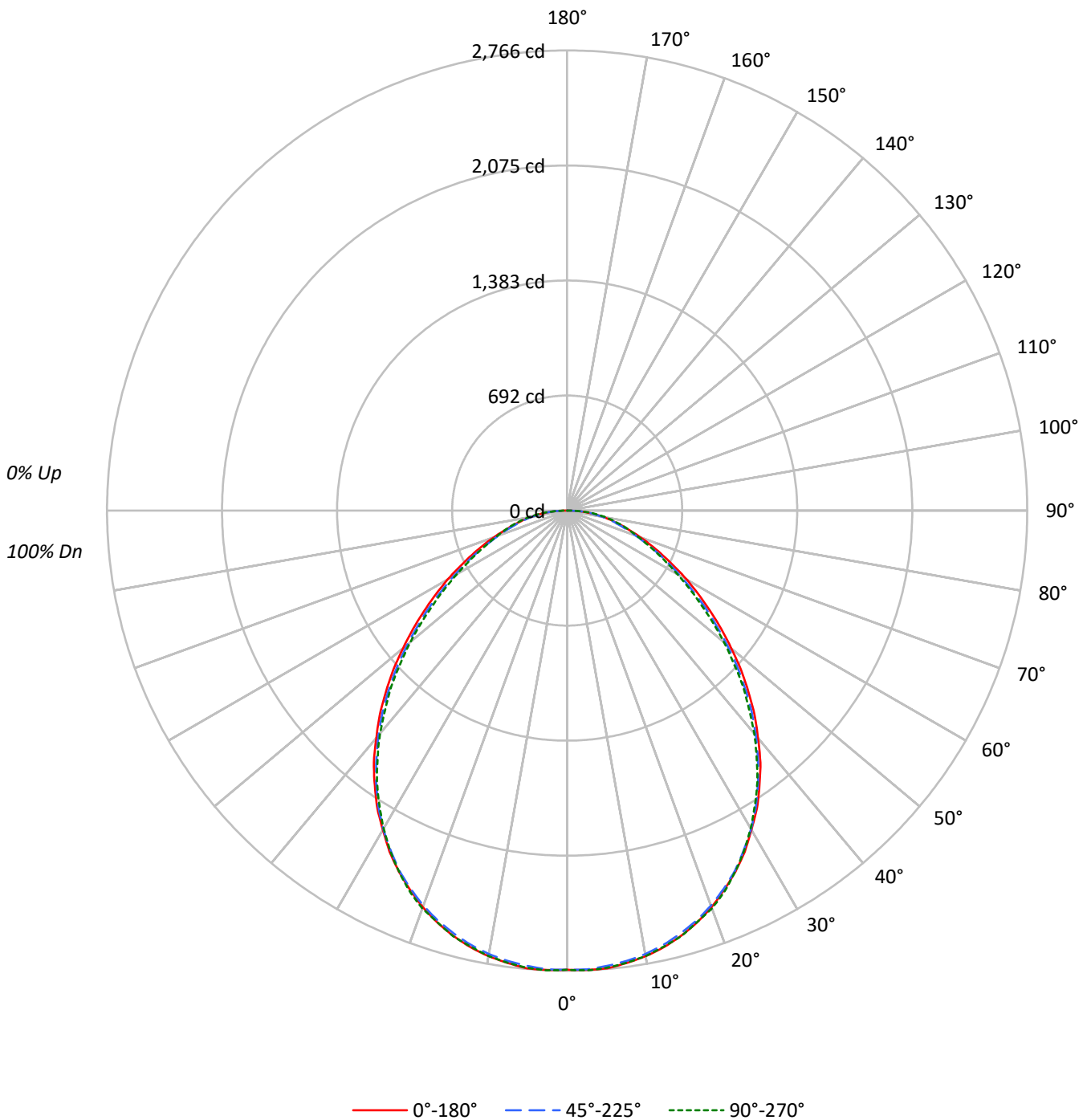
Input Watts (W): 62.217  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	3714	3714	3714
5°	3731	3710	3725
10°	3716	3698	3715
15°	3687	3667	3690
20°	3633	3618	3644
25°	3554	3545	3552
30°	3442	3435	3427
35°	3312	3287	3273
40°	3135	3099	3074
45°	2932	2878	2844
50°	2695	2622	2578
55°	2458	2367	2298
60°	2232	2112	2057
65°	2011	1897	1865
70°	1841	1721	1769
75°	1721	1641	1763
80°	1707	1675	1841
85°	1740	1755	2005



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.2	4.0
10°-20°	742.7	11.4
20°-30°	1097.2	16.9
30°-40°	1247.4	19.2
40°-50°	1164.9	17.9
50°-60°	905.9	13.9
60°-70°	601.1	9.3
70°-80°	347.9	5.4
80°-90°	126.5	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°	2101.2	32.4
0°-40°	3348.6	51.6
0°-60°	5419.5	83.4
0°-90°	6495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6495.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2760	2760	2760	2760	2760	
5°	2762	2748	2747	2752	2758	262
15°	2647	2634	2632	2631	2649	746
25°	2394	2384	2388	2383	2393	1101
35°	2016	2006	2001	1987	1993	1259
45°	1541	1529	1513	1493	1494	1187
55°	1048	1032	1009	983	980	940
65°	632	612	596	585	586	631
75°	331	323	316	330	339	354
85°	113	111	114	129	130	123
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2760.4	2760.4	2760.4	2760.4	2760.4
2.5°	2764.4	2756.3	2760.4	2757.3	2766.5
5°	2762.4	2748.2	2747.2	2752.3	2758.3
7.5°	2743.1	2727.9	2730.9	2730.9	2741.1
10°	2719.8	2704.5	2706.6	2707.6	2718.8
12.5°	2688.3	2673.1	2674.1	2673.1	2684.2
15°	2646.7	2633.5	2632.5	2631.4	2648.7
17.5°	2595.9	2577.6	2583.7	2584.7	2593.9
20°	2537.0	2522.8	2526.9	2525.9	2545.1
22.5°	2467.0	2456.8	2459.9	2457.8	2476.1
25°	2393.9	2383.7	2387.8	2382.7	2392.9
27.5°	2311.6	2304.5	2300.5	2297.4	2304.5
30°	2215.2	2211.1	2211.1	2197.9	2206.1
32.5°	2123.8	2110.6	2110.6	2105.6	2100.5
35°	2016.2	2006.1	2001.0	1986.8	1992.9
37.5°	1908.6	1885.3	1883.2	1872.1	1872.1
40°	1784.8	1771.6	1764.4	1752.3	1750.2
42.5°	1667.0	1653.8	1641.6	1621.3	1617.2
45°	1541.1	1528.9	1512.7	1493.4	1494.4
47.5°	1416.2	1399.0	1383.7	1360.4	1357.3
50°	1287.3	1275.1	1252.8	1232.5	1231.5
52.5°	1166.5	1147.2	1126.9	1102.5	1102.5
55°	1047.7	1032.5	1009.1	982.7	979.7
57.5°	934.0	919.8	893.4	874.1	869.0
60°	829.4	809.1	784.8	768.5	764.5
62.5°	724.9	706.6	688.3	672.1	671.1
65°	631.5	612.2	595.9	584.8	585.8
67.5°	547.2	531.0	512.7	509.6	510.7
70°	468.0	450.8	437.6	444.7	449.7
72.5°	392.9	383.8	374.6	384.8	391.9
75°	331.0	322.8	315.7	329.9	339.1
77.5°	274.1	268.0	267.0	279.2	287.3
80°	220.3	213.2	216.2	230.5	237.6
82.5°	167.5	162.4	163.4	180.7	185.8
85°	112.7	110.7	113.7	128.9	129.9
87.5°	59.9	59.9	61.9	71.1	68.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)