

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: P293403

Luminaire Tested: **24GR-LD5-72-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293403  
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-LD5-72-F125-UNV-L92765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6862.0 lumens  
Efficiency: N/A  
Efficacy: 124.8 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

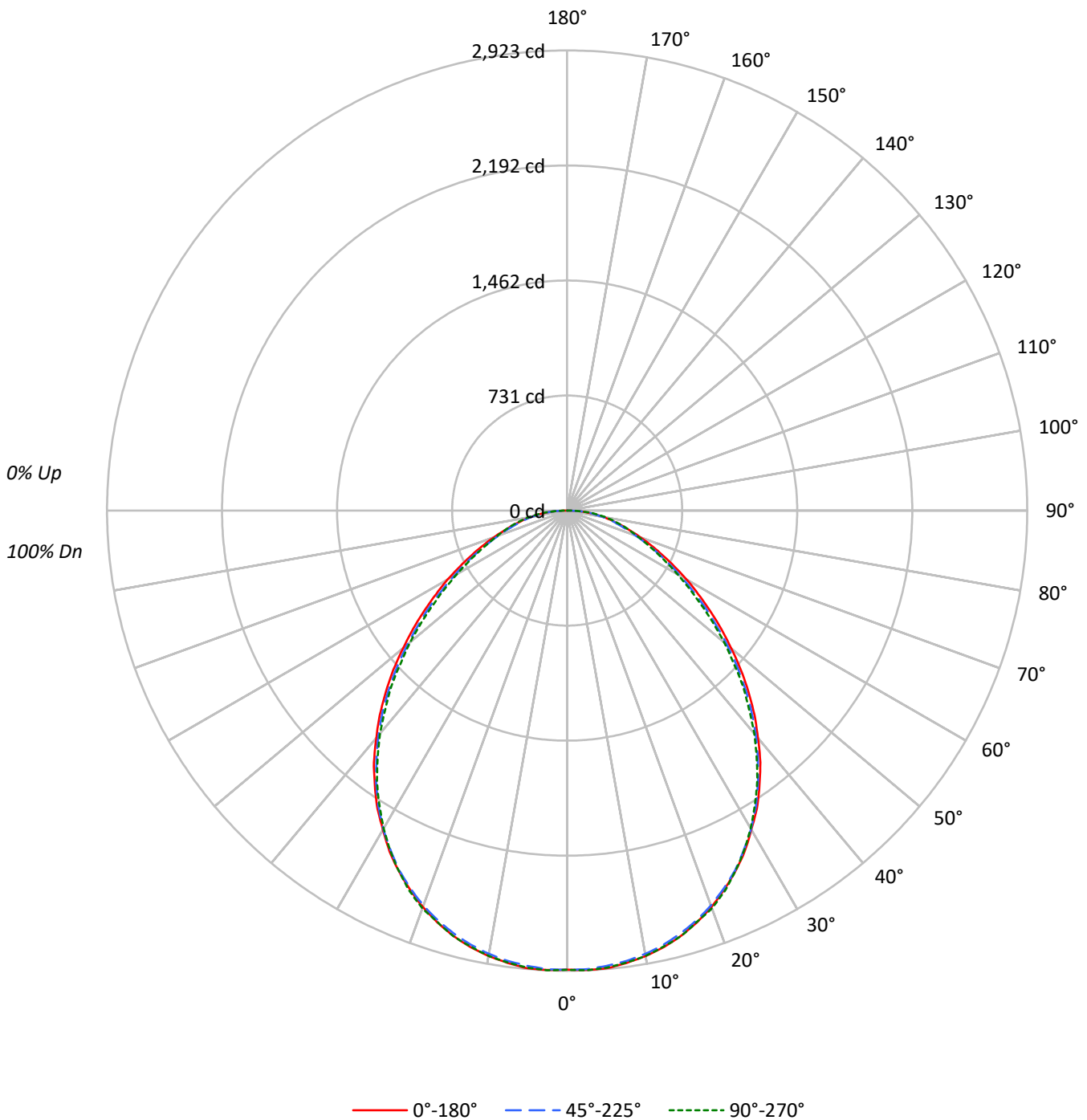
Input Watts (W): 54.963  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3924	3924	3924
5°	3942	3920	3936
10°	3926	3907	3924
15°	3895	3874	3898
20°	3838	3823	3850
25°	3755	3745	3753
30°	3636	3629	3621
35°	3499	3472	3458
40°	3312	3274	3248
45°	3098	3041	3004
50°	2847	2771	2723
55°	2597	2501	2428
60°	2358	2231	2174
65°	2124	2004	1970
70°	1945	1819	1869
75°	1818	1734	1862
80°	1804	1771	1945
85°	1839	1854	2120



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.0	4.0
10°-20°	784.7	11.4
20°-30°	1159.2	16.9
30°-40°	1317.9	19.2
40°-50°	1230.8	17.9
50°-60°	957.1	13.9
60°-70°	635.1	9.3
70°-80°	367.5	5.4
80°-90°	133.6	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°	2219.9	32.4
0°-40°	3537.9	51.6
0°-60°	5725.7	83.4
0°-90°	6862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6862.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2916	2916	2916	2916	2916	
5°	2918	2904	2902	2908	2914	277
15°	2796	2782	2781	2780	2798	788
25°	2529	2518	2523	2517	2528	1163
35°	2130	2119	2114	2099	2106	1330
45°	1628	1615	1598	1578	1579	1255
55°	1107	1091	1066	1038	1035	993
65°	667	647	630	618	619	667
75°	350	341	334	349	358	374
85°	119	117	120	136	137	129
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2916.3	2916.3	2916.3	2916.3	2916.3
2.5°	2920.6	2912.1	2916.3	2913.1	2922.8
5°	2918.5	2903.5	2902.4	2907.8	2914.2
7.5°	2898.1	2882.0	2885.2	2885.2	2896.0
10°	2873.4	2857.4	2859.5	2860.6	2872.4
12.5°	2840.2	2824.1	2825.2	2824.1	2835.9
15°	2796.2	2782.3	2781.2	2780.1	2798.4
17.5°	2742.6	2723.3	2729.7	2730.8	2740.4
20°	2680.4	2665.4	2669.7	2668.6	2689.0
22.5°	2606.4	2595.6	2598.9	2596.7	2616.0
25°	2529.1	2518.4	2522.7	2517.3	2528.1
27.5°	2442.3	2434.8	2430.5	2427.3	2434.8
30°	2340.4	2336.1	2336.1	2322.1	2330.7
32.5°	2243.8	2229.9	2229.9	2224.5	2219.2
35°	2130.1	2119.4	2114.1	2099.0	2105.5
37.5°	2016.5	1991.8	1989.6	1977.8	1977.8
40°	1885.6	1871.7	1864.1	1851.3	1849.1
42.5°	1761.2	1747.2	1734.4	1712.9	1708.6
45°	1628.2	1615.3	1598.1	1577.8	1578.8
47.5°	1496.3	1478.0	1461.9	1437.3	1434.0
50°	1360.0	1347.2	1323.6	1302.1	1301.0
52.5°	1232.4	1212.0	1190.6	1164.8	1164.8
55°	1106.9	1090.8	1066.1	1038.3	1035.0
57.5°	986.8	971.8	943.9	923.5	918.1
60°	876.3	854.8	829.1	811.9	807.7
62.5°	765.8	746.5	727.2	710.0	709.0
65°	667.1	646.8	629.6	617.8	618.9
67.5°	578.1	561.0	541.7	538.4	539.5
70°	494.5	476.2	462.3	469.8	475.2
72.5°	415.1	405.4	395.8	406.5	414.0
75°	349.7	341.1	333.6	348.6	358.2
77.5°	289.6	283.2	282.1	295.0	303.5
80°	232.8	225.2	228.5	243.5	251.0
82.5°	177.0	171.6	172.7	190.9	196.3
85°	119.1	116.9	120.1	136.2	137.3
87.5°	63.3	63.3	65.4	75.1	71.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)