

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: P293324

Luminaire Tested: **24GR-LD5-72-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293324  
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-L93050-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6637.0 lumens  
Efficiency: N/A  
Efficacy: 123.1 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

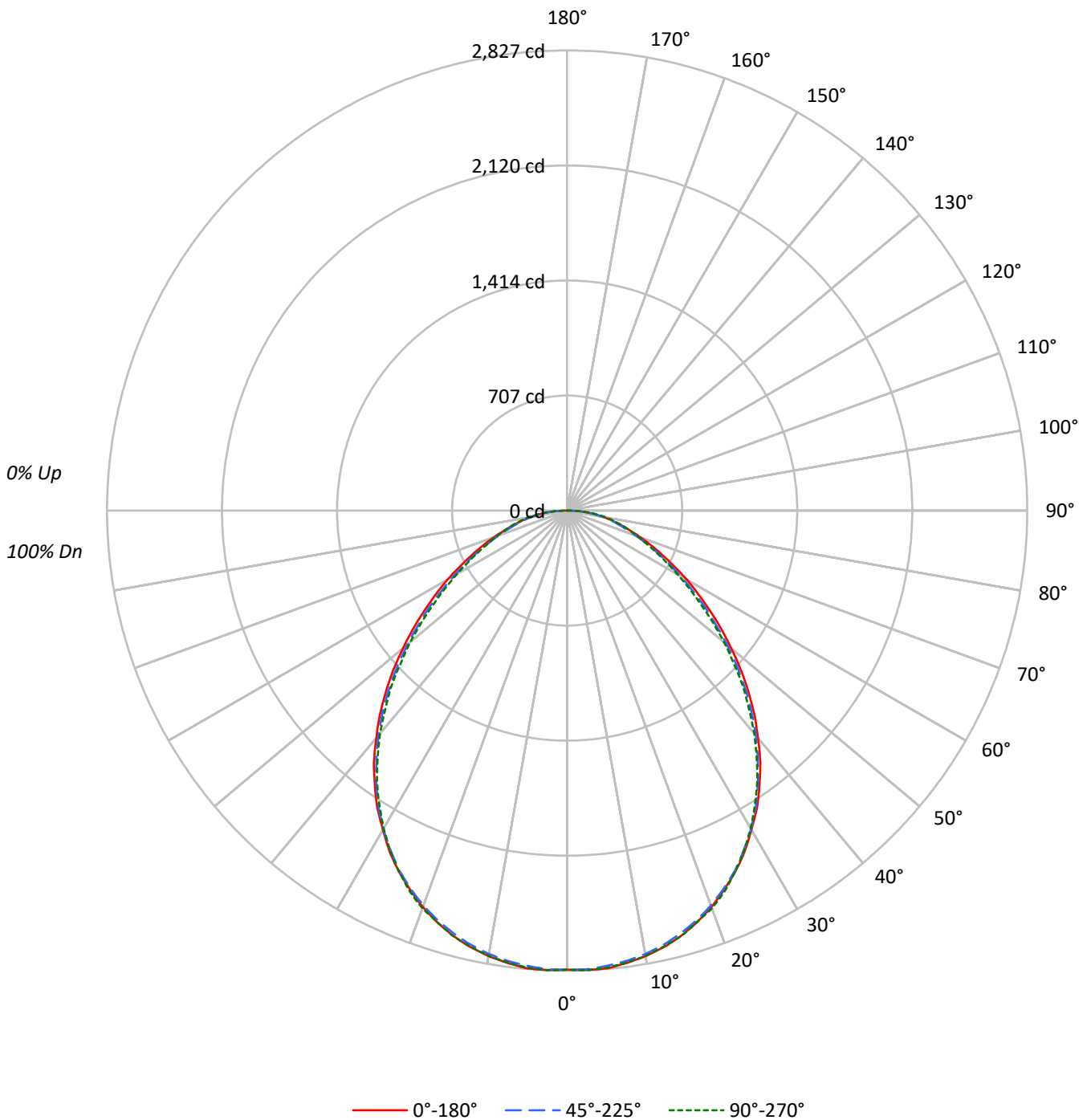
Input Watts (W): 53.91117  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3795	3795	3795
5°	3813	3791	3807
10°	3797	3779	3796
15°	3767	3747	3770
20°	3712	3697	3724
25°	3632	3622	3630
30°	3517	3510	3502
35°	3384	3358	3345
40°	3203	3167	3141
45°	2997	2941	2906
50°	2753	2680	2634
55°	2511	2419	2348
60°	2281	2158	2102
65°	2054	1939	1906
70°	1881	1759	1808
75°	1758	1677	1801
80°	1744	1712	1881
85°	1778	1794	2050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.0	4.0
10°-20°	759.0	11.4
20°-30°	1121.2	16.9
30°-40°	1274.7	19.2
40°-50°	1190.4	17.9
50°-60°	925.7	13.9
60°-70°	614.3	9.3
70°-80°	355.5	5.4
80°-90°	129.3	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°	2147.1	32.4
0°-40°	3421.9	51.6
0°-60°	5538.0	83.4
0°-90°	6637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6637.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2821	2821	2821	2821	2821	
5°	2823	2808	2807	2812	2819	268
15°	2704	2691	2690	2689	2707	762
25°	2446	2436	2440	2435	2445	1125
35°	2060	2050	2045	2030	2036	1286
45°	1575	1562	1546	1526	1527	1213
55°	1071	1055	1031	1004	1001	960
65°	645	626	609	598	599	645
75°	338	330	323	337	346	362
85°	115	113	116	132	133	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2820.7	2820.7	2820.7	2820.7	2820.7
2.5°	2824.9	2816.6	2820.7	2817.6	2826.9
5°	2822.8	2808.3	2807.2	2812.4	2818.6
7.5°	2803.1	2787.5	2790.6	2790.6	2801.0
10°	2779.2	2763.7	2765.7	2766.8	2778.2
12.5°	2747.1	2731.5	2732.5	2731.5	2742.9
15°	2704.5	2691.0	2690.0	2689.0	2706.6
17.5°	2652.7	2634.0	2640.2	2641.3	2650.6
20°	2592.5	2578.0	2582.1	2581.1	2600.8
22.5°	2520.9	2510.5	2513.7	2511.6	2530.2
25°	2446.2	2435.8	2440.0	2434.8	2445.2
27.5°	2362.2	2354.9	2350.8	2347.7	2354.9
30°	2263.6	2259.5	2259.5	2246.0	2254.3
32.5°	2170.3	2156.8	2156.8	2151.6	2146.4
35°	2060.3	2049.9	2044.7	2030.2	2036.4
37.5°	1950.3	1926.5	1924.4	1913.0	1913.0
40°	1823.8	1810.3	1803.0	1790.6	1788.5
42.5°	1703.4	1689.9	1677.5	1656.7	1652.6
45°	1574.8	1562.3	1545.7	1526.0	1527.1
47.5°	1447.2	1429.6	1414.0	1390.1	1387.0
50°	1315.4	1303.0	1280.2	1259.4	1258.4
52.5°	1192.0	1172.3	1151.5	1126.6	1126.6
55°	1070.6	1055.0	1031.2	1004.2	1001.1
57.5°	954.4	939.9	912.9	893.2	888.0
60°	847.6	826.8	801.9	785.3	781.2
62.5°	740.7	722.0	703.4	686.8	685.7
65°	645.3	625.6	609.0	597.5	598.6
67.5°	559.2	542.6	523.9	520.8	521.8
70°	478.2	460.6	447.1	454.4	459.6
72.5°	401.5	392.1	382.8	393.2	400.4
75°	338.2	329.9	322.6	337.2	346.5
77.5°	280.1	273.9	272.8	285.3	293.6
80°	225.1	217.9	221.0	235.5	242.8
82.5°	171.2	166.0	167.0	184.7	189.8
85°	115.2	113.1	116.2	131.8	132.8
87.5°	61.2	61.2	63.3	72.6	69.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)