

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: P293275

Luminaire Tested: **24GR-LD5-72-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293275  
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-L82765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7518.0 lumens  
Efficiency: N/A  
Efficacy: 139.1 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

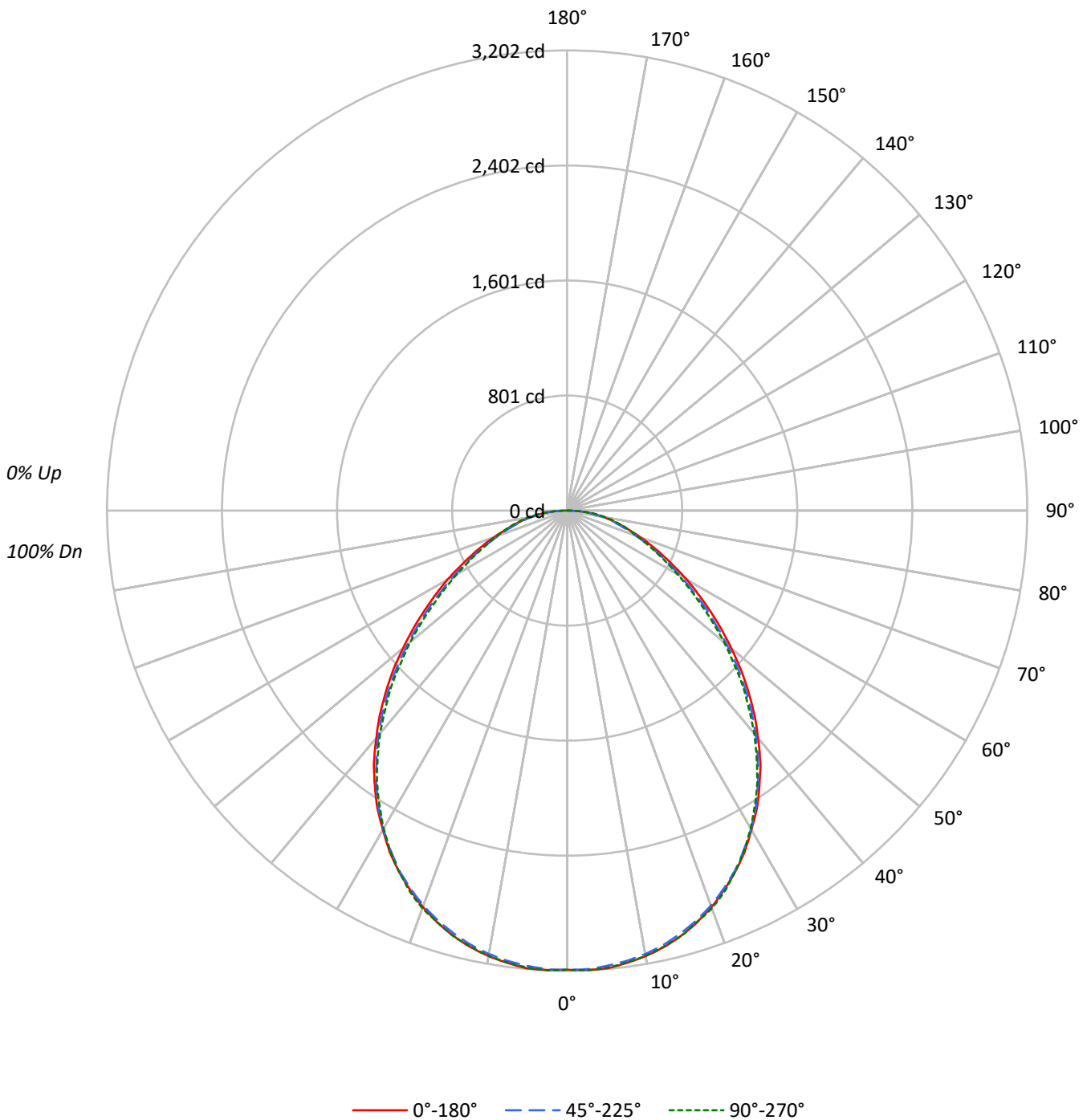
Input Watts (W): 54.033  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4299	4299	4299
5°	4319	4295	4312
10°	4301	4280	4300
15°	4267	4244	4271
20°	4205	4188	4218
25°	4114	4103	4112
30°	3984	3976	3967
35°	3833	3804	3789
40°	3629	3587	3558
45°	3394	3332	3291
50°	3119	3035	2984
55°	2845	2740	2660
60°	2584	2444	2381
65°	2327	2196	2159
70°	2131	1993	2048
75°	1992	1900	2040
80°	1976	1939	2131
85°	2013	2032	2322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.4	4.0
10°-20°	859.7	11.4
20°-30°	1270.0	16.9
30°-40°	1443.9	19.2
40°-50°	1348.4	17.9
50°-60°	1048.6	13.9
60°-70°	695.8	9.3
70°-80°	402.7	5.4
80°-90°	146.4	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°	2432.1	32.4
0°-40°	3876.1	51.6
0°-60°	6273.1	83.4
0°-90°	7518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3195	3195	3195	3195	3195	
5°	3198	3181	3180	3186	3193	303
15°	3064	3048	3047	3046	3066	863
25°	2771	2759	2764	2758	2770	1274
35°	2334	2322	2316	2300	2307	1457
45°	1784	1770	1751	1729	1730	1374
55°	1213	1195	1168	1138	1134	1088
65°	731	709	690	677	678	730
75°	383	374	366	382	392	410
85°	130	128	132	149	150	142
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3195.1	3195.1	3195.1	3195.1	3195.1
2.5°	3199.8	3190.4	3195.1	3191.6	3202.2
5°	3197.5	3181.0	3179.9	3185.7	3192.8
7.5°	3175.2	3157.5	3161.1	3161.1	3172.8
10°	3148.1	3130.5	3132.9	3134.0	3147.0
12.5°	3111.7	3094.1	3095.3	3094.1	3107.0
15°	3063.5	3048.3	3047.1	3045.9	3065.9
17.5°	3004.8	2983.6	2990.7	2991.9	3002.4
20°	2936.6	2920.2	2924.9	2923.7	2946.0
22.5°	2855.5	2843.8	2847.3	2845.0	2866.1
25°	2770.9	2759.2	2763.9	2758.0	2769.8
27.5°	2675.7	2667.5	2662.8	2659.3	2667.5
30°	2564.1	2559.4	2559.4	2544.1	2553.5
32.5°	2458.3	2443.1	2443.1	2437.2	2431.3
35°	2333.8	2322.0	2316.2	2299.7	2306.8
37.5°	2209.2	2182.2	2179.8	2166.9	2166.9
40°	2065.9	2050.6	2042.4	2028.3	2025.9
42.5°	1929.5	1914.3	1900.2	1876.7	1872.0
45°	1783.8	1769.7	1750.9	1728.6	1729.8
47.5°	1639.3	1619.3	1601.7	1574.7	1571.1
50°	1490.1	1475.9	1450.1	1426.6	1425.4
52.5°	1350.2	1327.9	1304.4	1276.2	1276.2
55°	1212.7	1195.1	1168.1	1137.5	1134.0
57.5°	1081.1	1064.7	1034.1	1011.8	1005.9
60°	960.1	936.6	908.4	889.6	884.9
62.5°	839.0	817.9	796.7	777.9	776.8
65°	730.9	708.6	689.8	676.9	678.0
67.5°	633.4	614.6	593.4	589.9	591.1
70°	541.7	521.8	506.5	514.7	520.6
72.5°	454.8	444.2	433.6	445.4	453.6
75°	383.1	373.7	365.5	381.9	392.5
77.5°	317.3	310.2	309.1	323.2	332.6
80°	255.0	246.8	250.3	266.8	275.0
82.5°	193.9	188.0	189.2	209.2	215.0
85°	130.4	128.1	131.6	149.2	150.4
87.5°	69.3	69.3	71.7	82.3	78.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)