

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: P293783

Luminaire Tested: **24GR-LD5-85-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-85-A125-UNV-L82765-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7840.0 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

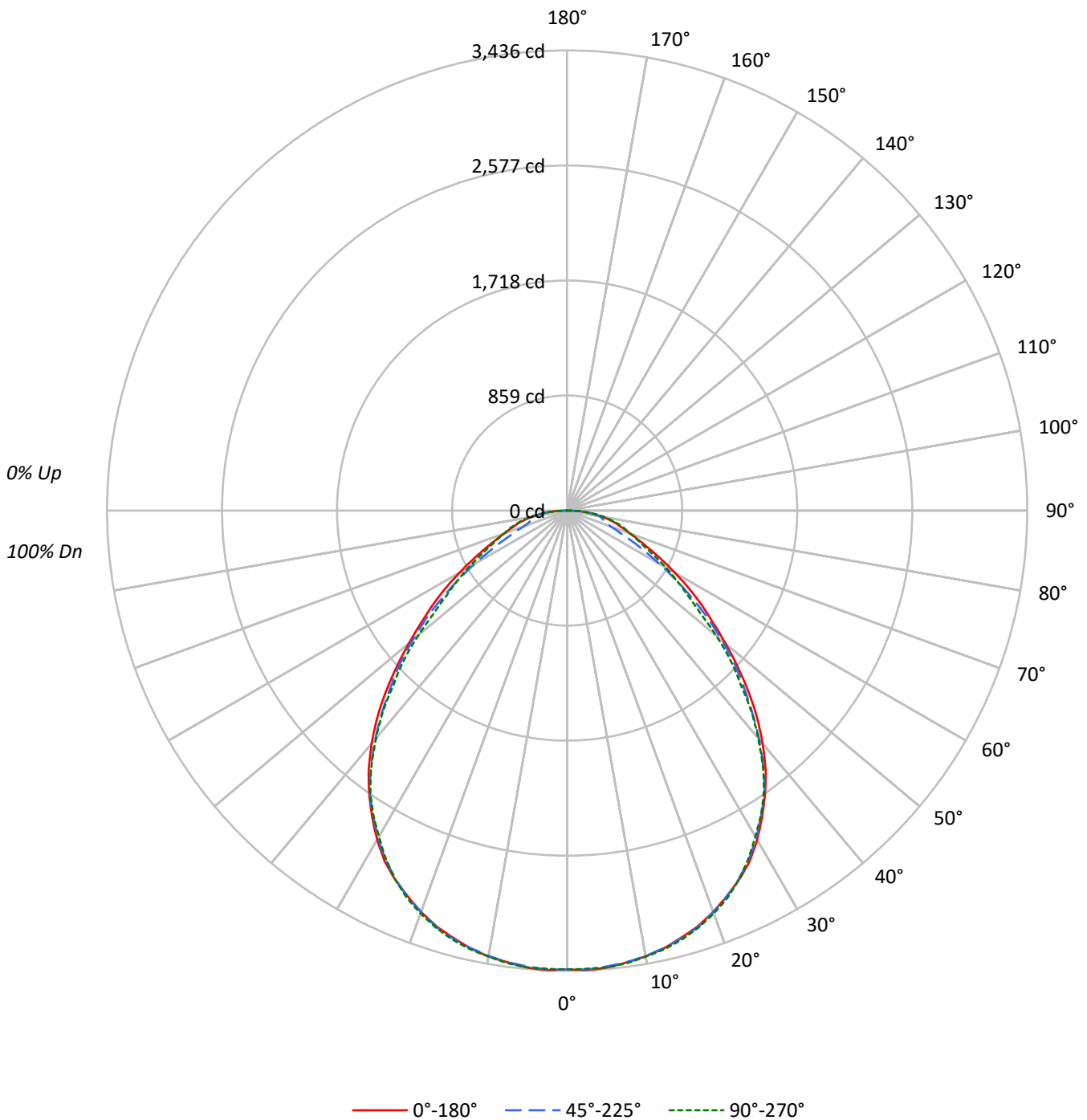
Input Watts (W): 61.938  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

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

	0°	45°	90°
0°	4609	4609	4609
5°	4625	4615	4624
10°	4619	4612	4620
15°	4596	4605	4617
20°	4565	4565	4583
25°	4514	4505	4509
30°	4408	4386	4365
35°	4235	4223	4207
40°	3989	3916	3899
45°	3649	3549	3484
50°	3226	3162	3039
55°	2869	2674	2571
60°	2498	2139	2294
65°	2157	1659	2029
70°	1968	1357	1963
75°	1984	1462	2086
80°	2066	1905	2199
85°	2152	2266	2436



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.0	4.1
10°-20°	932.0	11.9
20°-30°	1395.1	17.8
30°-40°	1594.1	20.3
40°-50°	1441.3	18.4
50°-60°	1036.9	13.2
60°-70°	601.1	7.7
70°-80°	356.6	4.5
80°-90°	157.9	2.0
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°	2652.1	33.8
0°-40°	4246.2	54.2
0°-60°	6724.4	85.8
0°-90°	7840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7840.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3426	3426	3426	3426	3426	
5°	3425	3420	3417	3412	3423	325
15°	3300	3306	3306	3302	3314	932
25°	3040	3037	3034	3028	3037	1398
35°	2578	2566	2571	2539	2561	1607
45°	1918	1885	1865	1848	1831	1473
55°	1223	1200	1140	1110	1096	1094
65°	678	602	521	582	637	684
75°	382	319	281	347	401	403
85°	139	150	147	169	158	149
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3425.8	3425.8	3425.8	3425.8	3425.8
2.5°	3435.6	3423.4	3429.5	3425.8	3424.6
5°	3424.6	3419.7	3417.2	3412.4	3423.4
7.5°	3402.6	3398.9	3400.1	3401.3	3408.7
10°	3380.6	3374.4	3375.7	3378.1	3381.8
12.5°	3346.3	3342.6	3343.9	3346.3	3354.9
15°	3299.8	3305.9	3305.9	3302.3	3314.5
17.5°	3253.4	3252.1	3258.2	3247.2	3264.4
20°	3188.5	3189.8	3188.5	3189.8	3200.8
22.5°	3115.1	3121.3	3117.6	3117.6	3129.8
25°	3040.5	3036.9	3034.4	3028.3	3036.9
27.5°	2951.3	2943.9	2937.8	2925.6	2931.7
30°	2837.5	2838.7	2822.8	2811.8	2809.4
32.5°	2710.3	2710.3	2695.6	2687.1	2694.4
35°	2578.2	2566.0	2570.9	2539.1	2561.1
37.5°	2435.1	2415.6	2404.5	2393.5	2400.9
40°	2271.2	2245.5	2229.6	2207.6	2219.9
42.5°	2098.8	2067.0	2047.4	2031.5	2036.4
45°	1917.8	1884.7	1865.2	1848.1	1830.9
47.5°	1727.0	1706.2	1696.4	1674.4	1654.8
50°	1541.1	1533.7	1510.5	1492.1	1451.8
52.5°	1371.1	1364.9	1328.2	1297.7	1246.3
55°	1223.1	1199.8	1139.9	1110.5	1095.9
57.5°	1072.6	1034.7	962.6	958.9	968.7
60°	928.3	881.8	795.0	814.6	852.5
62.5°	797.4	727.7	644.6	691.0	736.3
65°	677.6	601.7	521.0	582.2	637.2
67.5°	578.5	502.7	419.5	501.5	565.1
70°	500.2	423.2	344.9	439.1	499.0
72.5°	435.4	365.7	300.9	390.2	452.5
75°	381.6	319.2	281.3	347.4	401.2
77.5°	327.8	277.6	269.1	309.4	342.5
80°	266.6	243.4	245.8	271.5	283.8
82.5°	199.4	200.6	206.7	227.5	222.6
85°	139.4	150.4	146.8	168.8	157.8
87.5°	77.1	84.4	79.5	96.6	86.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)