

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: P293831

Luminaire Tested: **24GR-LD5-85-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293831  
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-L93050-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6461.0 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

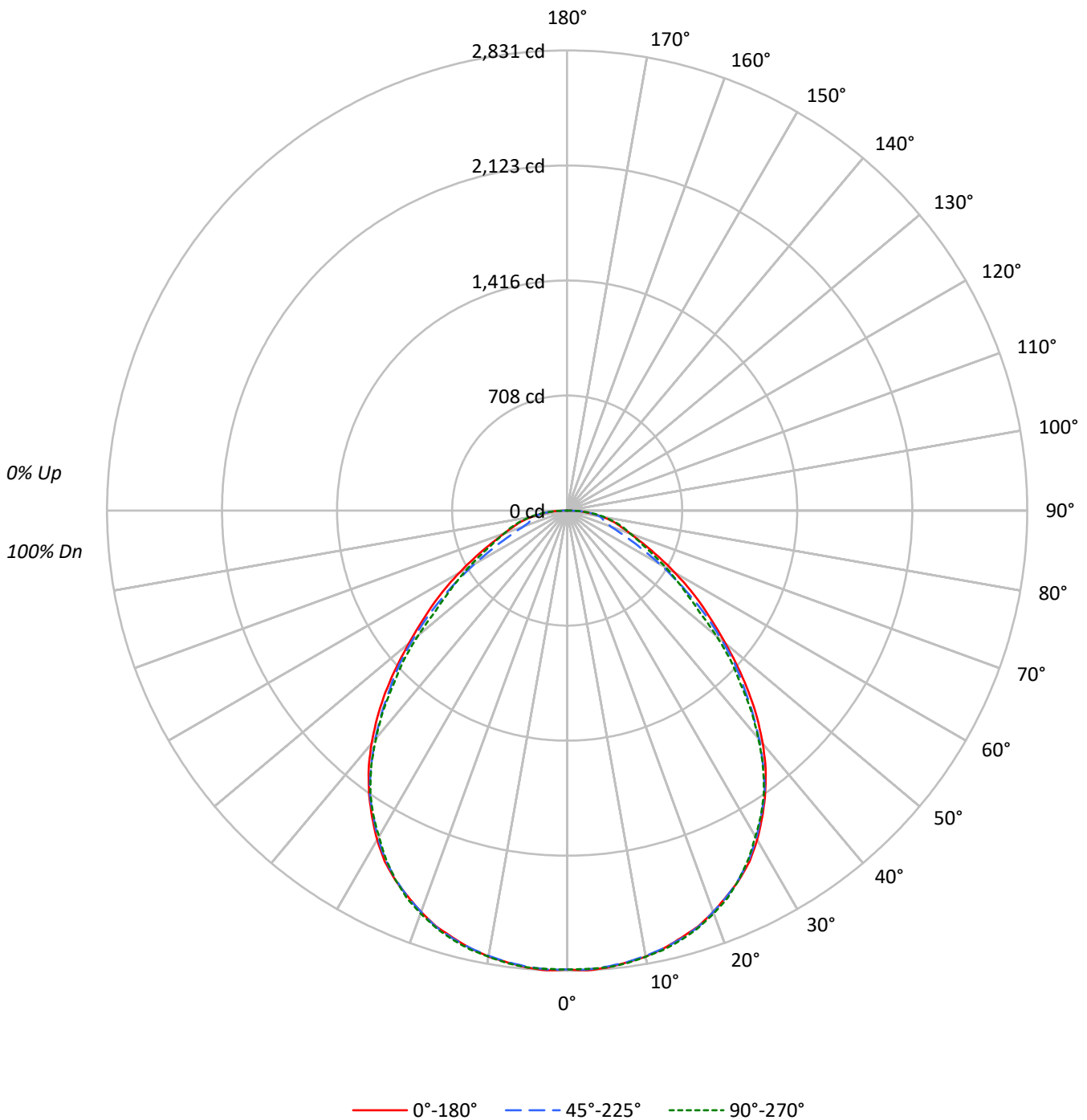
Input Watts (W): 63.838269  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3799	3799	3799
5°	3812	3804	3810
10°	3806	3801	3808
15°	3788	3795	3805
20°	3762	3762	3777
25°	3720	3712	3715
30°	3633	3614	3597
35°	3490	3480	3467
40°	3287	3227	3213
45°	3007	2925	2871
50°	2658	2606	2504
55°	2364	2204	2118
60°	2059	1763	1890
65°	1778	1367	1672
70°	1622	1118	1618
75°	1635	1205	1719
80°	1702	1570	1812
85°	1774	1868	2007



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.8	4.1
10°-20°	768.1	11.9
20°-30°	1149.7	17.8
30°-40°	1313.7	20.3
40°-50°	1187.8	18.4
50°-60°	854.5	13.2
60°-70°	495.4	7.7
70°-80°	293.9	4.5
80°-90°	130.1	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°	2185.6	33.8
0°-40°	3499.3	54.2
0°-60°	5541.6	85.8
0°-90°	6461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2823	2823	2823	2823	2823	
5°	2822	2818	2816	2812	2821	268
15°	2719	2724	2724	2721	2732	768
25°	2506	2503	2501	2496	2503	1152
35°	2125	2115	2119	2092	2111	1325
45°	1580	1553	1537	1523	1509	1214
55°	1008	989	939	915	903	902
65°	558	496	429	480	525	564
75°	314	263	232	286	331	332
85°	115	124	121	139	130	123
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2823.2	2823.2	2823.2	2823.2	2823.2
2.5°	2831.3	2821.2	2826.3	2823.2	2822.2
5°	2822.2	2818.2	2816.2	2812.1	2821.2
7.5°	2804.1	2801.1	2802.1	2803.1	2809.1
10°	2785.9	2780.9	2781.9	2783.9	2786.9
12.5°	2757.7	2754.7	2755.7	2757.7	2764.8
15°	2719.4	2724.5	2724.5	2721.4	2731.5
17.5°	2681.1	2680.1	2685.1	2676.1	2690.2
20°	2627.7	2628.7	2627.7	2628.7	2637.8
22.5°	2567.2	2572.3	2569.2	2569.2	2579.3
25°	2505.7	2502.7	2500.7	2495.7	2502.7
27.5°	2432.2	2426.1	2421.1	2411.0	2416.0
30°	2338.4	2339.4	2326.3	2317.2	2315.2
32.5°	2233.6	2233.6	2221.5	2214.4	2220.5
35°	2124.7	2114.7	2118.7	2092.5	2110.6
37.5°	2006.8	1990.7	1981.6	1972.5	1978.6
40°	1871.7	1850.6	1837.5	1819.3	1829.4
42.5°	1729.6	1703.4	1687.3	1674.2	1678.2
45°	1580.4	1553.2	1537.1	1523.0	1508.9
47.5°	1423.2	1406.1	1398.0	1379.9	1363.7
50°	1270.0	1264.0	1244.8	1229.7	1196.4
52.5°	1129.9	1124.9	1094.6	1069.4	1027.1
55°	1007.9	988.8	939.4	915.2	903.1
57.5°	884.0	852.7	793.2	790.2	798.3
60°	765.0	726.7	655.2	671.3	702.5
62.5°	657.2	599.7	531.2	569.5	606.8
65°	558.4	495.9	429.4	479.8	525.1
67.5°	476.8	414.3	345.7	413.3	465.7
70°	412.2	348.7	284.2	361.8	411.2
72.5°	358.8	301.4	248.0	321.5	372.9
75°	314.5	263.1	231.8	286.3	330.6
77.5°	270.1	228.8	221.7	255.0	282.2
80°	219.7	200.6	202.6	223.8	233.8
82.5°	164.3	165.3	170.3	187.5	183.4
85°	114.9	124.0	121.0	139.1	130.0
87.5°	63.5	69.5	65.5	79.6	71.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)