

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: P293697

Luminaire Tested: **24GR-LD5-64-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293697  
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-LD5-64-A125-UNV-L83050-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6732.0 lumens  
Efficiency: N/A  
Efficacy: 143.3 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

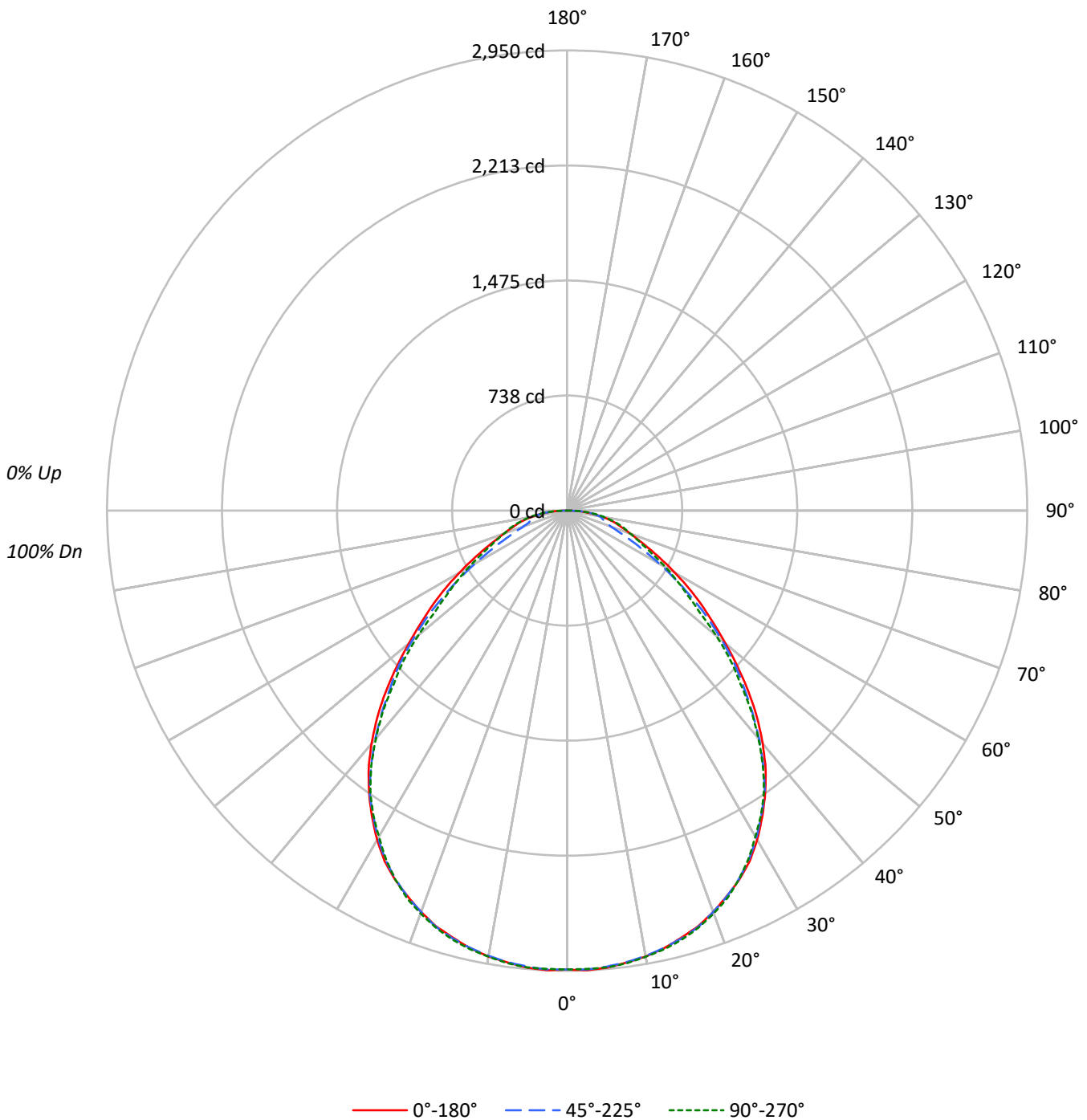
Input Watts (W): 46.965  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3958	3958	3958
5°	3972	3963	3970
10°	3966	3960	3967
15°	3947	3954	3964
20°	3920	3920	3935
25°	3876	3868	3871
30°	3785	3766	3748
35°	3636	3626	3612
40°	3425	3363	3348
45°	3133	3048	2992
50°	2770	2715	2609
55°	2464	2296	2207
60°	2145	1837	1970
65°	1852	1424	1742
70°	1690	1165	1686
75°	1704	1255	1791
80°	1774	1636	1888
85°	1848	1945	2092



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.0	4.1
10°-20°	800.3	11.9
20°-30°	1197.9	17.8
30°-40°	1368.8	20.3
40°-50°	1237.6	18.4
50°-60°	890.4	13.2
60°-70°	516.2	7.7
70°-80°	306.2	4.5
80°-90°	135.6	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°	2277.3	33.8
0°-40°	3646.1	54.2
0°-60°	5774.0	85.8
0°-90°	6732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6732.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2942	2942	2942	2942	2942	
5°	2941	2936	2934	2930	2940	279
15°	2834	2839	2839	2836	2846	800
25°	2611	2608	2606	2600	2608	1200
35°	2214	2203	2208	2180	2199	1380
45°	1647	1618	1602	1587	1572	1265
55°	1050	1030	979	954	941	940
65°	582	517	447	500	547	587
75°	328	274	242	298	344	346
85°	120	129	126	145	136	128
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2941.7	2941.7	2941.7	2941.7	2941.7
2.5°	2950.1	2939.5	2944.8	2941.7	2940.6
5°	2940.6	2936.4	2934.3	2930.1	2939.5
7.5°	2921.7	2918.5	2919.6	2920.6	2926.9
10°	2902.8	2897.5	2898.6	2900.7	2903.8
12.5°	2873.4	2870.2	2871.3	2873.4	2880.7
15°	2833.5	2838.7	2838.7	2835.6	2846.1
17.5°	2793.6	2792.5	2797.8	2788.3	2803.0
20°	2737.9	2739.0	2737.9	2739.0	2748.4
22.5°	2674.9	2680.1	2677.0	2677.0	2687.5
25°	2610.8	2607.7	2605.6	2600.3	2607.7
27.5°	2534.2	2527.9	2522.6	2512.1	2517.4
30°	2436.5	2437.5	2423.9	2414.4	2412.3
32.5°	2327.3	2327.3	2314.7	2307.3	2313.6
35°	2213.9	2203.3	2207.6	2180.2	2199.1
37.5°	2091.0	2074.2	2064.7	2055.3	2061.6
40°	1950.2	1928.2	1914.5	1895.6	1906.1
42.5°	1802.2	1774.9	1758.1	1744.4	1748.6
45°	1646.7	1618.4	1601.6	1586.9	1572.2
47.5°	1482.9	1465.0	1456.6	1437.7	1420.9
50°	1323.3	1317.0	1297.0	1281.3	1246.6
52.5°	1177.3	1172.0	1140.5	1114.3	1070.2
55°	1050.2	1030.3	978.8	953.6	941.0
57.5°	921.0	888.5	826.5	823.4	831.8
60°	797.1	757.2	682.6	699.4	732.0
62.5°	684.7	624.9	553.5	593.4	632.2
65°	581.8	516.7	447.4	499.9	547.2
67.5°	496.8	431.6	360.2	430.6	485.2
70°	429.5	363.4	296.2	377.0	428.5
72.5°	373.9	314.0	258.4	335.0	388.6
75°	327.7	274.1	241.5	298.3	344.5
77.5°	281.5	238.4	231.0	265.7	294.1
80°	228.9	209.0	211.1	233.1	243.6
82.5°	171.2	172.2	177.5	195.3	191.1
85°	119.7	129.2	126.0	144.9	135.5
87.5°	66.2	72.5	68.3	83.0	74.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)