

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: P293766

Luminaire Tested: **24GR-LD5-64-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293766  
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-L82765-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6262.0 lumens  
Efficiency: N/A  
Efficacy: 135.8 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

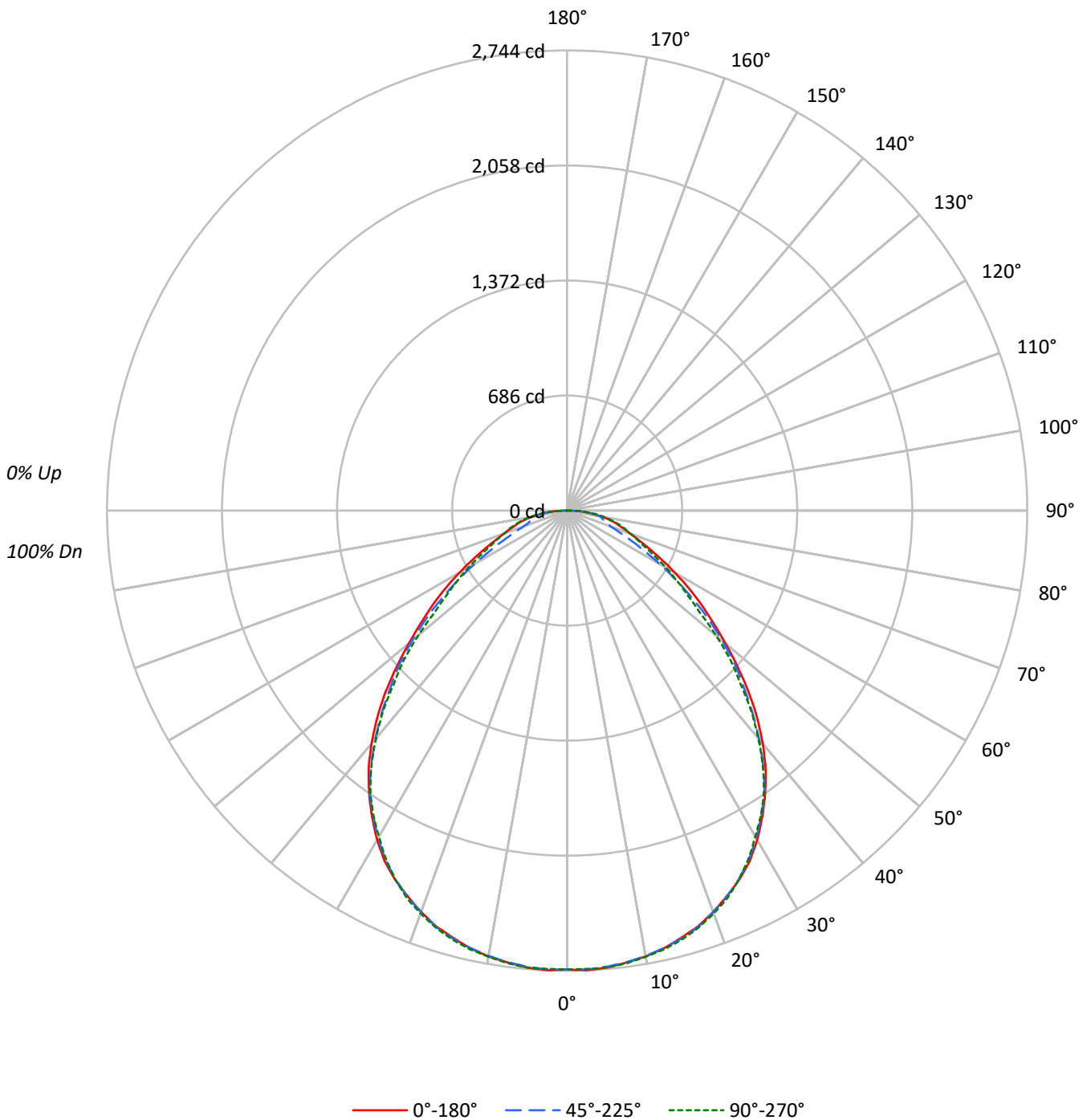
Input Watts (W): 46.128  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3682	3682	3682
5°	3694	3686	3693
10°	3689	3684	3690
15°	3671	3678	3688
20°	3647	3647	3660
25°	3605	3598	3601
30°	3521	3503	3486
35°	3382	3373	3360
40°	3186	3128	3114
45°	2915	2835	2783
50°	2577	2525	2427
55°	2292	2136	2053
60°	1995	1709	1832
65°	1723	1325	1621
70°	1572	1084	1568
75°	1585	1168	1666
80°	1650	1522	1756
85°	1720	1809	1945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.6	4.1
10°-20°	744.4	11.9
20°-30°	1114.3	17.8
30°-40°	1273.3	20.3
40°-50°	1151.2	18.4
50°-60°	828.2	13.2
60°-70°	480.1	7.7
70°-80°	284.8	4.5
80°-90°	126.1	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°	2118.3	33.8
0°-40°	3391.6	54.2
0°-60°	5370.9	85.8
0°-90°	6262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6262.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2736	2736	2736	2736	2736	
5°	2735	2731	2729	2726	2734	260
15°	2636	2640	2640	2638	2647	744
25°	2429	2426	2424	2419	2426	1116
35°	2059	2050	2053	2028	2046	1284
45°	1532	1505	1490	1476	1462	1177
55°	977	958	910	887	875	874
65°	541	481	416	465	509	546
75°	305	255	225	277	320	322
85°	111	120	117	135	126	119
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2736.3	2736.3	2736.3	2736.3	2736.3
2.5°	2744.1	2734.3	2739.2	2736.3	2735.3
5°	2735.3	2731.4	2729.4	2725.5	2734.3
7.5°	2717.7	2714.8	2715.8	2716.7	2722.6
10°	2700.1	2695.2	2696.2	2698.2	2701.1
12.5°	2672.8	2669.8	2670.8	2672.8	2679.6
15°	2635.7	2640.5	2640.5	2637.6	2647.4
17.5°	2598.5	2597.6	2602.4	2593.7	2607.3
20°	2546.8	2547.7	2546.8	2547.7	2556.5
22.5°	2488.1	2493.0	2490.1	2490.1	2499.9
25°	2428.6	2425.6	2423.7	2418.8	2425.6
27.5°	2357.2	2351.4	2346.5	2336.7	2341.6
30°	2266.4	2267.4	2254.7	2245.9	2243.9
32.5°	2164.8	2164.8	2153.1	2146.2	2152.1
35°	2059.3	2049.5	2053.4	2028.0	2045.6
37.5°	1945.0	1929.4	1920.6	1911.8	1917.6
40°	1814.1	1793.6	1780.9	1763.3	1773.1
42.5°	1676.3	1650.9	1635.3	1622.6	1626.5
45°	1531.8	1505.4	1489.8	1476.1	1462.4
47.5°	1379.4	1362.8	1355.0	1337.4	1321.7
50°	1230.9	1225.0	1206.5	1191.8	1159.6
52.5°	1095.1	1090.2	1060.9	1036.5	995.5
55°	976.9	958.3	910.5	887.0	875.3
57.5°	856.7	826.5	768.8	765.9	773.7
60°	741.5	704.3	635.0	650.6	680.9
62.5°	636.9	581.3	514.8	551.9	588.1
65°	541.2	480.6	416.2	465.0	509.0
67.5°	462.1	401.5	335.1	400.5	451.3
70°	399.5	338.0	275.5	350.7	398.6
72.5°	347.8	292.1	240.3	311.6	361.5
75°	304.8	255.0	224.7	277.4	320.4
77.5°	261.8	221.8	214.9	247.2	273.5
80°	213.0	194.4	196.4	216.9	226.6
82.5°	159.2	160.2	165.1	181.7	177.8
85°	111.4	120.2	117.2	134.8	126.0
87.5°	61.5	67.4	63.5	77.2	69.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)