

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: P293765

Luminaire Tested: **24GR-LD5-64-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293765  
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-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: 6053.0 lumens  
Efficiency: N/A  
Efficacy: 132.6 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

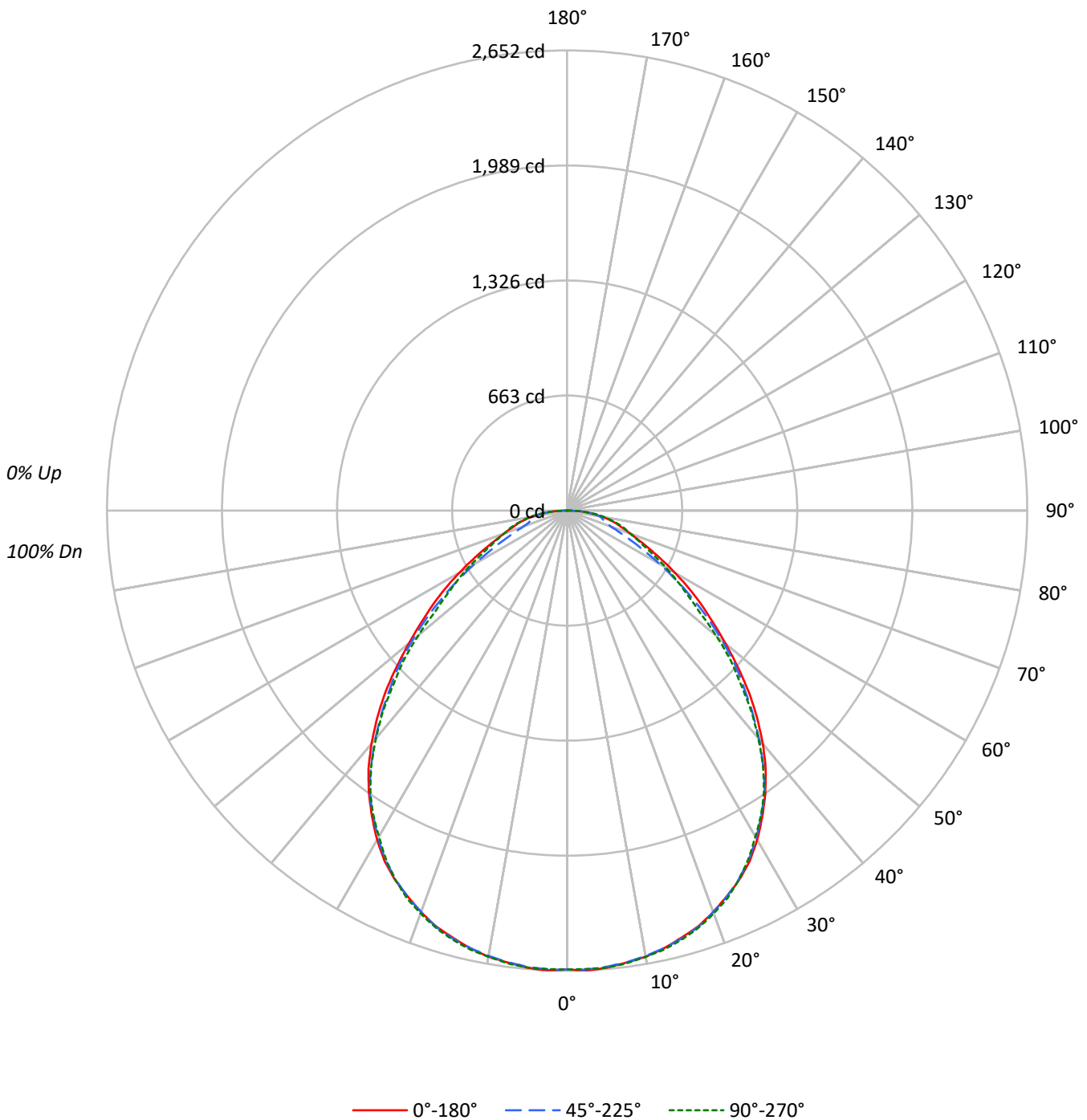
Input Watts (W): 45.663  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3559	3559	3559
5°	3571	3563	3570
10°	3566	3561	3567
15°	3549	3555	3565
20°	3525	3525	3538
25°	3485	3478	3481
30°	3404	3386	3370
35°	3270	3260	3248
40°	3080	3023	3010
45°	2817	2740	2690
50°	2491	2441	2346
55°	2215	2065	1985
60°	1929	1652	1771
65°	1665	1281	1566
70°	1519	1048	1516
75°	1531	1129	1610
80°	1595	1471	1698
85°	1661	1749	1880



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.9	4.1
10°-20°	719.6	11.9
20°-30°	1077.1	17.8
30°-40°	1230.8	20.3
40°-50°	1112.7	18.4
50°-60°	800.6	13.2
60°-70°	464.1	7.7
70°-80°	275.3	4.5
80°-90°	121.9	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°	2047.6	33.8
0°-40°	3278.4	54.2
0°-60°	5191.6	85.8
0°-90°	6053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6053.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2645	2645	2645	2645	2645	
5°	2644	2640	2638	2635	2643	251
15°	2548	2552	2552	2550	2559	719
25°	2348	2345	2343	2338	2345	1079
35°	1991	1981	1985	1960	1977	1241
45°	1481	1455	1440	1427	1414	1137
55°	944	926	880	857	846	845
65°	523	465	402	450	492	528
75°	295	246	217	268	310	311
85°	108	116	113	130	122	115
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2645.0	2645.0	2645.0	2645.0	2645.0
2.5°	2652.5	2643.1	2647.8	2645.0	2644.0
5°	2644.0	2640.2	2638.3	2634.6	2643.1
7.5°	2627.0	2624.2	2625.1	2626.1	2631.7
10°	2610.0	2605.3	2606.2	2608.1	2611.0
12.5°	2583.6	2580.7	2581.7	2583.6	2590.2
15°	2547.7	2552.4	2552.4	2549.6	2559.0
17.5°	2511.8	2510.9	2515.6	2507.1	2520.3
20°	2461.8	2462.7	2461.8	2462.7	2471.2
22.5°	2405.1	2409.8	2407.0	2407.0	2416.4
25°	2347.5	2344.7	2342.8	2338.1	2344.7
27.5°	2278.6	2272.9	2268.2	2258.7	2263.5
30°	2190.7	2191.7	2179.4	2170.9	2169.0
32.5°	2092.5	2092.5	2081.2	2074.6	2080.3
35°	1990.6	1981.1	1984.9	1960.3	1977.3
37.5°	1880.1	1865.0	1856.5	1848.0	1853.6
40°	1753.5	1733.7	1721.4	1704.4	1713.9
42.5°	1620.4	1595.8	1580.7	1568.5	1572.2
45°	1480.6	1455.1	1440.0	1426.8	1413.6
47.5°	1333.3	1317.3	1309.7	1292.7	1277.6
50°	1189.8	1184.1	1166.2	1152.0	1120.9
52.5°	1058.5	1053.8	1025.5	1001.9	962.2
55°	944.3	926.3	880.1	857.4	846.1
57.5°	828.1	798.9	743.2	740.3	747.9
60°	716.7	680.8	613.8	628.9	658.2
62.5°	615.7	561.9	497.6	533.5	568.5
65°	523.1	464.6	402.3	449.5	492.0
67.5°	446.6	388.1	323.9	387.2	436.3
70°	386.2	326.7	266.3	339.0	385.3
72.5°	336.2	282.3	232.3	301.2	349.4
75°	294.6	246.5	217.2	268.2	309.7
77.5°	253.1	214.4	207.7	238.9	264.4
80°	205.9	187.9	189.8	209.6	219.1
82.5°	153.9	154.9	159.6	175.6	171.9
85°	107.6	116.1	113.3	130.3	121.8
87.5°	59.5	65.2	61.4	74.6	67.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)