

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: P293891

Luminaire Tested: **24GR-LD5-64-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293891  
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-L92765-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: 5224.0 lumens  
Efficiency: N/A  
Efficacy: 114.9 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

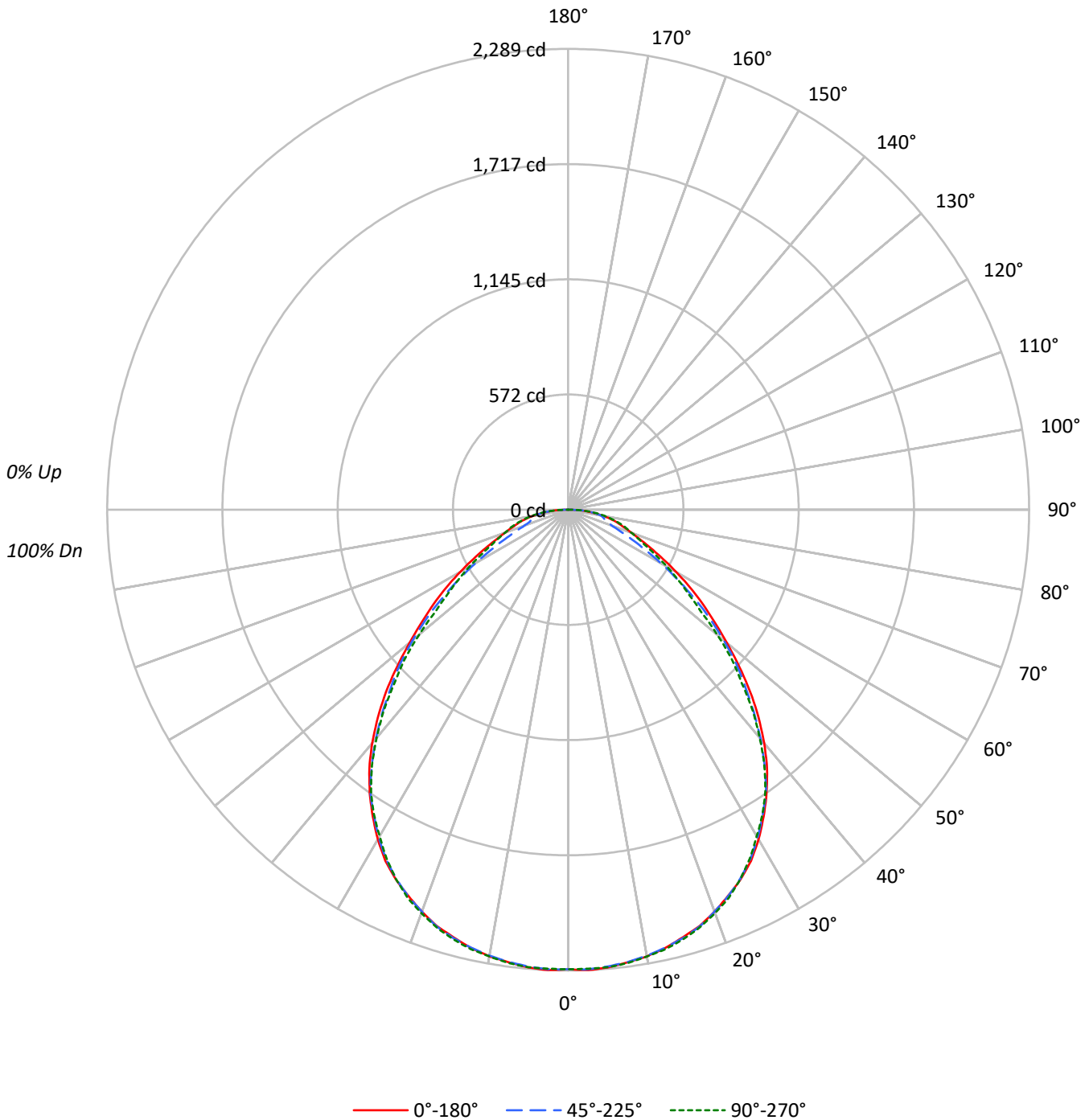
Input Watts (W): 45.477  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

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

	0°	45°	90°
0°	3071	3071	3071
5°	3082	3075	3081
10°	3078	3073	3079
15°	3063	3068	3076
20°	3042	3042	3054
25°	3008	3002	3004
30°	2937	2922	2908
35°	2822	2814	2803
40°	2658	2610	2598
45°	2432	2365	2321
50°	2150	2107	2025
55°	1912	1782	1713
60°	1665	1425	1528
65°	1437	1105	1352
70°	1311	904	1308
75°	1322	974	1390
80°	1377	1269	1465
85°	1434	1510	1623



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.5	4.1
10°-20°	621.0	11.9
20°-30°	929.6	17.8
30°-40°	1062.2	20.3
40°-50°	960.4	18.4
50°-60°	690.9	13.2
60°-70°	400.5	7.7
70°-80°	237.6	4.5
80°-90°	105.2	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°	1767.1	33.8
0°-40°	2829.4	54.2
0°-60°	4480.6	85.8
0°-90°	5224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5224.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2283	2283	2283	2283	2283	
5°	2282	2279	2277	2274	2281	217
15°	2199	2203	2203	2200	2208	621
25°	2026	2024	2022	2018	2024	931
35°	1718	1710	1713	1692	1706	1071
45°	1278	1256	1243	1231	1220	982
55°	815	800	760	740	730	729
65°	452	401	347	388	425	456
75°	254	213	187	231	267	269
85°	93	100	98	112	105	100
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2282.7	2282.7	2282.7	2282.7	2282.7
2.5°	2289.2	2281.1	2285.2	2282.7	2281.9
5°	2281.9	2278.6	2277.0	2273.7	2281.1
7.5°	2267.2	2264.8	2265.6	2266.4	2271.3
10°	2252.6	2248.5	2249.3	2250.9	2253.4
12.5°	2229.7	2227.3	2228.1	2229.7	2235.4
15°	2198.8	2202.8	2202.8	2200.4	2208.5
17.5°	2167.8	2167.0	2171.1	2163.7	2175.1
20°	2124.6	2125.4	2124.6	2125.4	2132.8
22.5°	2075.7	2079.8	2077.3	2077.3	2085.5
25°	2026.0	2023.5	2021.9	2017.8	2023.5
27.5°	1966.5	1961.6	1957.5	1949.4	1953.5
30°	1890.7	1891.5	1880.9	1873.6	1872.0
32.5°	1806.0	1806.0	1796.2	1790.5	1795.4
35°	1717.9	1709.8	1713.0	1691.9	1706.5
37.5°	1622.6	1609.5	1602.2	1594.9	1599.8
40°	1513.4	1496.3	1485.7	1471.0	1479.2
42.5°	1398.5	1377.3	1364.2	1353.7	1356.9
45°	1277.9	1255.9	1242.8	1231.4	1220.0
47.5°	1150.7	1136.9	1130.4	1115.7	1102.6
50°	1026.9	1022.0	1006.5	994.3	967.4
52.5°	913.6	909.5	885.0	864.7	830.4
55°	815.0	799.5	759.5	740.0	730.2
57.5°	714.7	689.5	641.4	638.9	645.4
60°	618.6	587.6	529.7	542.8	568.0
62.5°	531.4	484.9	429.5	460.5	490.6
65°	451.5	401.0	347.2	387.9	424.6
67.5°	385.5	334.9	279.5	334.1	376.5
70°	333.3	282.0	229.8	292.6	332.5
72.5°	290.1	243.7	200.5	260.0	301.5
75°	254.3	212.7	187.4	231.4	267.3
77.5°	218.4	185.0	179.3	206.2	228.2
80°	177.7	162.2	163.8	180.9	189.1
82.5°	132.8	133.7	137.7	151.6	148.3
85°	92.9	100.2	97.8	112.5	105.1
87.5°	51.3	56.2	53.0	64.4	57.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)