

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: P293890

Luminaire Tested: **24GR-LD5-64-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293890  
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-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5024.0 lumens  
Efficiency: N/A  
Efficacy: 109.6 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

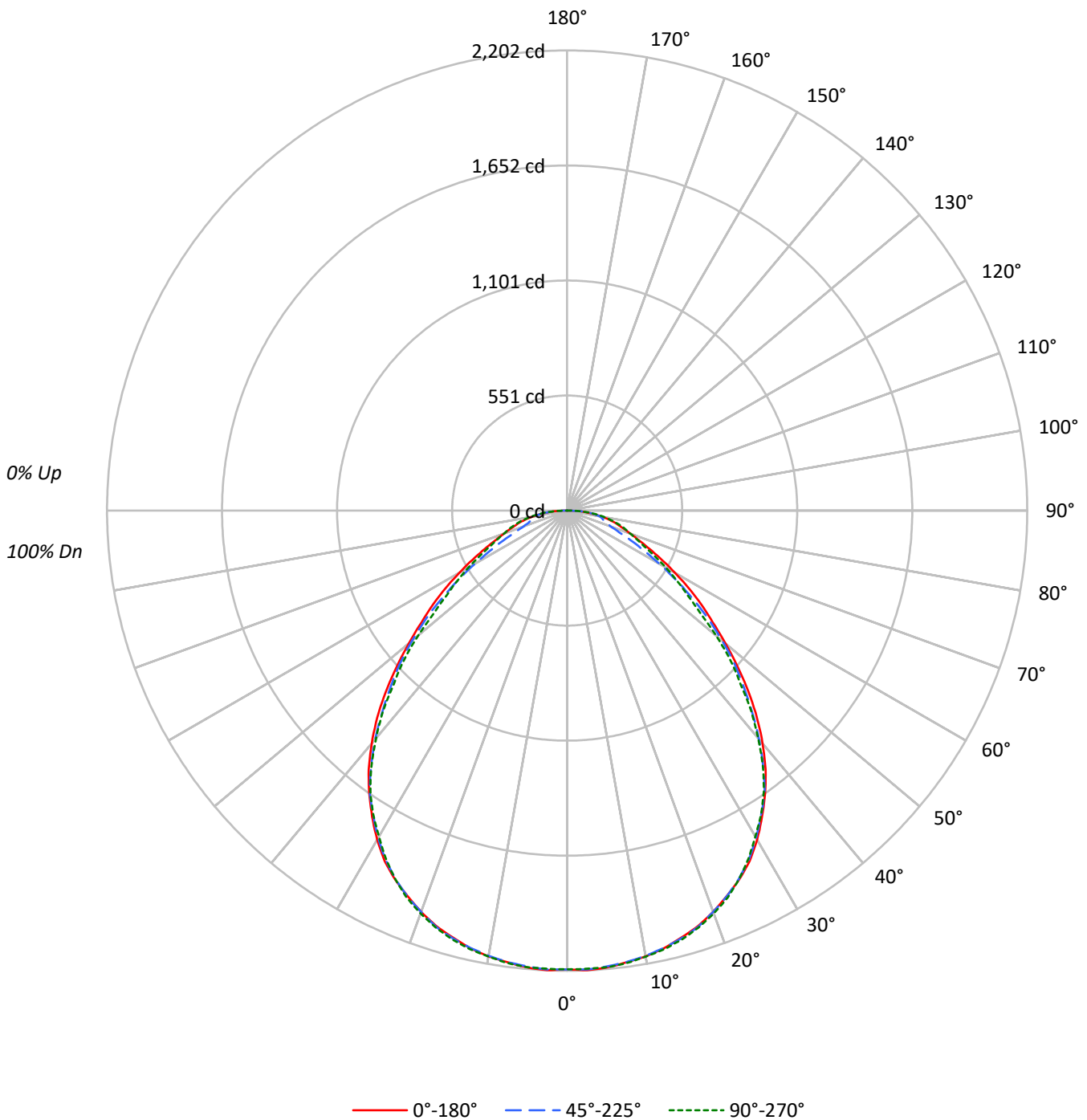
Input Watts (W): 45.849  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2954	2954	2954
5°	2964	2958	2963
10°	2960	2955	2961
15°	2946	2951	2959
20°	2926	2926	2937
25°	2893	2887	2889
30°	2825	2810	2797
35°	2714	2706	2696
40°	2556	2510	2498
45°	2338	2274	2233
50°	2067	2026	1947
55°	1839	1714	1647
60°	1601	1371	1470
65°	1382	1063	1300
70°	1261	869	1258
75°	1271	937	1337
80°	1324	1220	1409
85°	1379	1453	1561



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.2	4.1
10°-20°	597.2	11.9
20°-30°	894.0	17.8
30°-40°	1021.5	20.3
40°-50°	923.6	18.4
50°-60°	664.5	13.2
60°-70°	385.2	7.7
70°-80°	228.5	4.5
80°-90°	101.2	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°	1699.5	33.8
0°-40°	2721.0	54.2
0°-60°	4309.1	85.8
0°-90°	5024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5024.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2195	2195	2195	2195	2195	
5°	2194	2191	2190	2187	2194	208
15°	2115	2118	2118	2116	2124	597
25°	1948	1946	1944	1941	1946	896
35°	1652	1644	1648	1627	1641	1030
45°	1229	1208	1195	1184	1173	944
55°	784	769	730	712	702	701
65°	434	386	334	373	408	438
75°	244	205	180	223	257	258
85°	89	96	94	108	101	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2195.3	2195.3	2195.3	2195.3	2195.3
2.5°	2201.6	2193.7	2197.7	2195.3	2194.5
5°	2194.5	2191.4	2189.8	2186.7	2193.7
7.5°	2180.4	2178.1	2178.9	2179.6	2184.3
10°	2166.3	2162.4	2163.2	2164.7	2167.1
12.5°	2144.4	2142.0	2142.8	2144.4	2149.9
15°	2114.6	2118.5	2118.5	2116.2	2124.0
17.5°	2084.8	2084.0	2087.9	2080.9	2091.9
20°	2043.3	2044.0	2043.3	2044.0	2051.1
22.5°	1996.2	2000.2	1997.8	1997.8	2005.6
25°	1948.4	1946.1	1944.5	1940.6	1946.1
27.5°	1891.2	1886.5	1882.6	1874.8	1878.7
30°	1818.3	1819.1	1808.9	1801.9	1800.3
32.5°	1736.8	1736.8	1727.4	1721.9	1726.6
35°	1652.2	1644.3	1647.5	1627.1	1641.2
37.5°	1560.5	1547.9	1540.9	1533.8	1538.5
40°	1455.4	1439.0	1428.8	1414.7	1422.5
42.5°	1344.9	1324.6	1312.0	1301.8	1305.0
45°	1228.9	1207.8	1195.2	1184.3	1173.3
47.5°	1106.7	1093.3	1087.1	1073.0	1060.4
50°	987.5	982.8	967.9	956.2	930.3
52.5°	878.6	874.7	851.2	831.6	798.7
55°	783.8	768.9	730.5	711.7	702.2
57.5°	687.4	663.1	616.8	614.5	620.7
60°	594.9	565.1	509.4	522.0	546.3
62.5°	511.0	466.3	413.0	442.8	471.8
65°	434.2	385.6	333.9	373.1	408.3
67.5°	370.7	322.1	268.8	321.3	362.1
70°	320.6	271.2	221.0	281.4	319.8
72.5°	279.0	234.3	192.8	250.0	290.0
75°	244.5	204.6	180.3	222.6	257.1
77.5°	210.0	177.9	172.4	198.3	219.5
80°	170.9	156.0	157.5	174.0	181.8
82.5°	127.8	128.5	132.5	145.8	142.6
85°	89.3	96.4	94.1	108.2	101.1
87.5°	49.4	54.1	50.9	61.9	55.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)