

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: P293746

Luminaire Tested: **24GR-LD5-48-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293746  
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-LD5-48-A125-UNV-L82765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4458.0 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

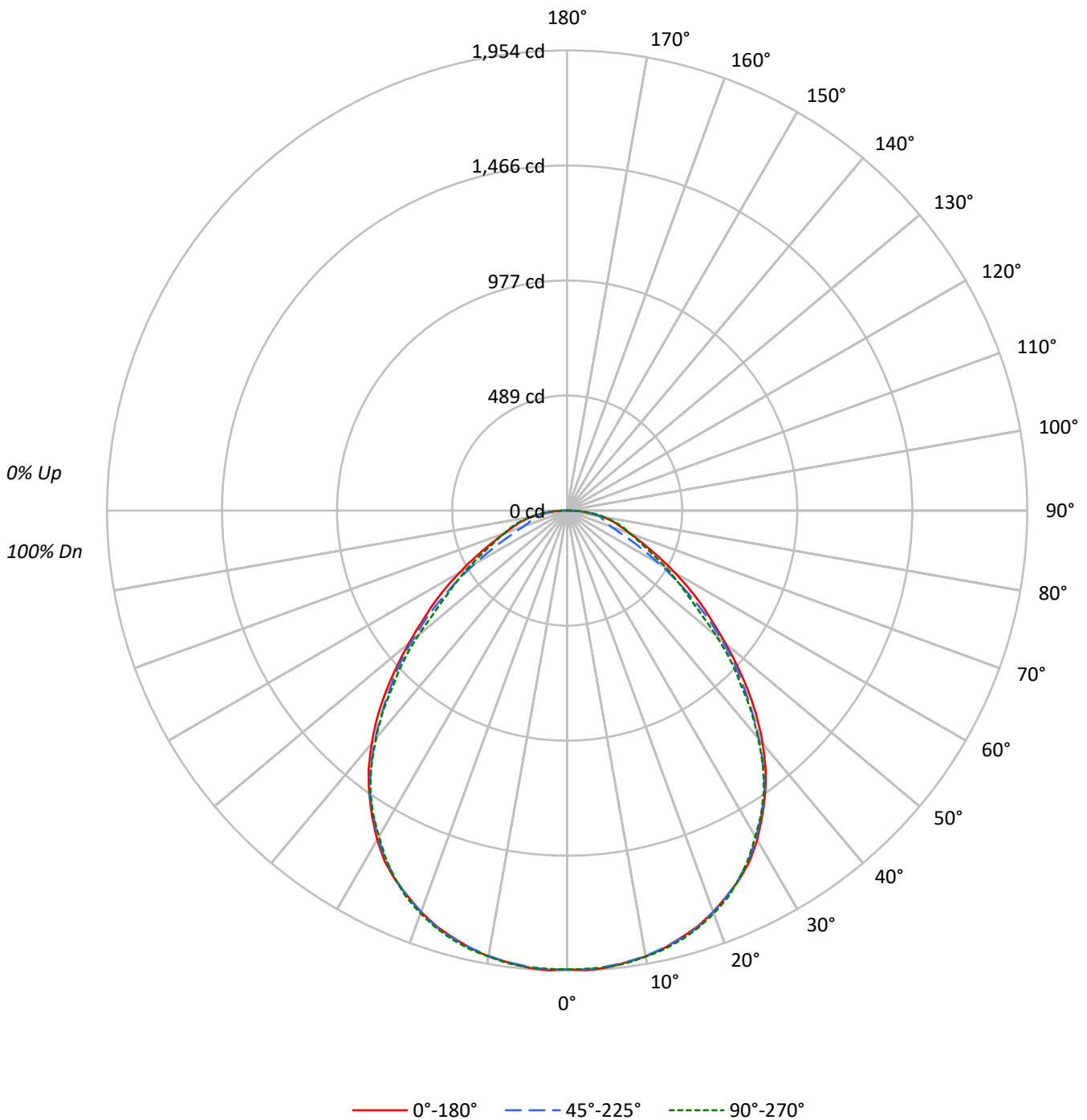
Input Watts (W): 32.829  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2621	2621	2621
5°	2630	2624	2629
10°	2626	2623	2627
15°	2614	2618	2625
20°	2596	2596	2606
25°	2567	2561	2564
30°	2507	2494	2482
35°	2408	2401	2392
40°	2268	2227	2217
45°	2075	2018	1981
50°	1834	1798	1728
55°	1631	1521	1462
60°	1421	1217	1304
65°	1227	943	1153
70°	1119	771	1116
75°	1128	832	1186
80°	1175	1083	1250
85°	1224	1289	1385



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.8	4.1
10°-20°	530.0	11.9
20°-30°	793.3	17.8
30°-40°	906.5	20.3
40°-50°	819.5	18.4
50°-60°	589.6	13.2
60°-70°	341.8	7.7
70°-80°	202.8	4.5
80°-90°	89.8	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°	1508.0	33.8
0°-40°	2414.5	54.2
0°-60°	3823.6	85.8
0°-90°	4458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4458.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1947	1944	1943	1940	1947	185
15°	1876	1880	1880	1878	1885	530
25°	1729	1727	1725	1722	1727	795
35°	1466	1459	1462	1444	1456	914
45°	1090	1072	1061	1051	1041	838
55°	696	682	648	632	623	622
65°	385	342	296	331	362	389
75°	217	182	160	198	228	229
85°	79	86	84	96	90	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1948.0	1948.0	1948.0	1948.0	1948.0
2.5°	1953.6	1946.6	1950.1	1948.0	1947.3
5°	1947.3	1944.5	1943.1	1940.3	1946.6
7.5°	1934.8	1932.7	1933.4	1934.1	1938.3
10°	1922.3	1918.8	1919.5	1920.9	1923.0
12.5°	1902.8	1900.7	1901.4	1902.8	1907.7
15°	1876.4	1879.8	1879.8	1877.7	1884.7
17.5°	1849.9	1849.2	1852.7	1846.5	1856.2
20°	1813.1	1813.8	1813.1	1813.8	1820.0
22.5°	1771.3	1774.8	1772.7	1772.7	1779.7
25°	1728.9	1726.8	1725.4	1722.0	1726.8
27.5°	1678.2	1674.0	1670.5	1663.5	1667.0
30°	1613.5	1614.2	1605.1	1598.9	1597.5
32.5°	1541.1	1541.1	1532.8	1527.9	1532.1
35°	1466.0	1459.1	1461.9	1443.8	1456.3
37.5°	1384.7	1373.5	1367.3	1361.0	1365.2
40°	1291.5	1276.9	1267.8	1255.3	1262.3
42.5°	1193.4	1175.3	1164.2	1155.2	1157.9
45°	1090.5	1071.7	1060.6	1050.8	1041.1
47.5°	982.0	970.2	964.6	952.1	941.0
50°	876.3	872.1	858.9	848.5	825.5
52.5°	779.6	776.1	755.3	737.9	708.7
55°	695.5	682.2	648.2	631.5	623.1
57.5°	609.9	588.4	547.3	545.2	550.8
60°	527.9	501.4	452.1	463.2	484.7
62.5°	453.4	413.8	366.5	392.9	418.7
65°	385.3	342.2	296.3	331.0	362.3
67.5°	329.0	285.8	238.5	285.1	321.3
70°	284.4	240.6	196.1	249.7	283.7
72.5°	247.6	207.9	171.1	221.9	257.3
75°	217.0	181.5	160.0	197.5	228.1
77.5°	186.4	157.9	153.0	176.0	194.7
80°	151.6	138.4	139.8	154.4	161.3
82.5°	113.4	114.1	117.5	129.4	126.6
85°	79.3	85.5	83.5	96.0	89.7
87.5°	43.8	48.0	45.2	54.9	49.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)