

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: P293682

Luminaire Tested: **24GR-LD5-42-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293682  
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-LD5-42-A125-UNV-L83050-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4410.0 lumens  
Efficiency: N/A  
Efficacy: 154.0 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

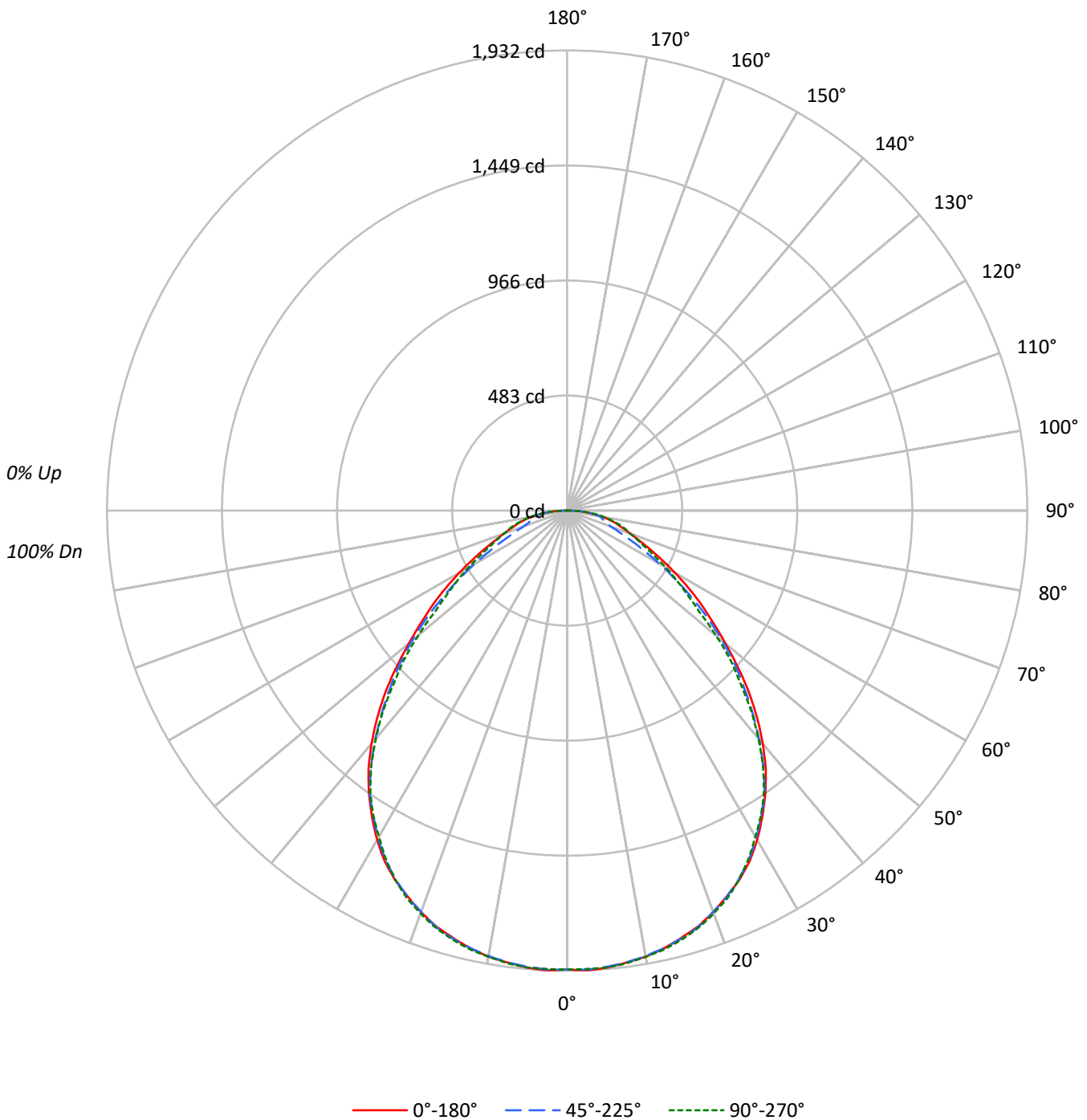
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2593	2593	2593
5°	2602	2596	2601
10°	2598	2594	2599
15°	2586	2590	2597
20°	2568	2568	2578
25°	2539	2534	2536
30°	2480	2467	2455
35°	2382	2375	2366
40°	2244	2203	2193
45°	2053	1996	1960
50°	1814	1778	1709
55°	1614	1504	1446
60°	1405	1203	1290
65°	1213	933	1141
70°	1107	763	1104
75°	1116	822	1173
80°	1162	1072	1237
85°	1210	1275	1369



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.8	4.1
10°-20°	524.3	11.9
20°-30°	784.7	17.8
30°-40°	896.7	20.3
40°-50°	810.7	18.4
50°-60°	583.2	13.2
60°-70°	338.1	7.7
70°-80°	200.6	4.5
80°-90°	88.8	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°	1491.8	33.8
0°-40°	2388.5	54.2
0°-60°	3782.4	85.8
0°-90°	4410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4410.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1927	1927	1927	1927	1927	
5°	1926	1924	1922	1919	1926	183
15°	1856	1860	1860	1858	1864	524
25°	1710	1708	1707	1703	1708	786
35°	1450	1443	1446	1428	1441	904
45°	1079	1060	1049	1040	1030	829
55°	688	675	641	625	616	615
65°	381	338	293	328	358	385
75°	215	180	158	195	226	227
85°	78	85	83	95	89	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1927.0	1927.0	1927.0	1927.0	1927.0
2.5°	1932.5	1925.6	1929.1	1927.0	1926.3
5°	1926.3	1923.6	1922.2	1919.4	1925.6
7.5°	1913.9	1911.9	1912.6	1913.3	1917.4
10°	1901.6	1898.1	1898.8	1900.2	1902.2
12.5°	1882.3	1880.2	1880.9	1882.3	1887.1
15°	1856.2	1859.6	1859.6	1857.5	1864.4
17.5°	1830.0	1829.3	1832.8	1826.6	1836.2
20°	1793.5	1794.2	1793.5	1794.2	1800.4
22.5°	1752.3	1755.7	1753.6	1753.6	1760.5
25°	1710.3	1708.2	1706.9	1703.4	1708.2
27.5°	1660.1	1656.0	1652.5	1645.6	1649.1
30°	1596.1	1596.8	1587.8	1581.7	1580.3
32.5°	1524.6	1524.6	1516.3	1511.5	1515.6
35°	1450.3	1443.4	1446.1	1428.2	1440.6
37.5°	1369.8	1358.7	1352.6	1346.4	1350.5
40°	1277.6	1263.1	1254.2	1241.8	1248.7
42.5°	1180.6	1162.7	1151.7	1142.7	1145.5
45°	1078.7	1060.2	1049.2	1039.5	1029.9
47.5°	971.4	959.7	954.2	941.8	930.8
50°	866.8	862.7	849.6	839.3	816.6
52.5°	771.2	767.8	747.1	729.9	701.0
55°	688.0	674.9	641.2	624.7	616.4
57.5°	603.4	582.0	541.4	539.4	544.9
60°	522.2	496.0	447.2	458.2	479.5
62.5°	448.6	409.3	362.6	388.7	414.2
65°	381.1	338.5	293.1	327.5	358.4
67.5°	325.4	282.8	236.0	282.1	317.8
70°	281.4	238.0	194.0	247.0	280.7
72.5°	244.9	205.7	169.2	219.5	254.6
75°	214.6	179.6	158.2	195.4	225.7
77.5°	184.4	156.2	151.4	174.1	192.6
80°	150.0	136.9	138.3	152.7	159.6
82.5°	112.1	112.8	116.3	128.0	125.2
85°	78.4	84.6	82.6	94.9	88.7
87.5°	43.3	47.5	44.7	54.3	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)