

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: P293743

Luminaire Tested: **24GR-LD5-42-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293743  
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-L82765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4367.0 lumens  
Efficiency: N/A  
Efficacy: 152.0 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

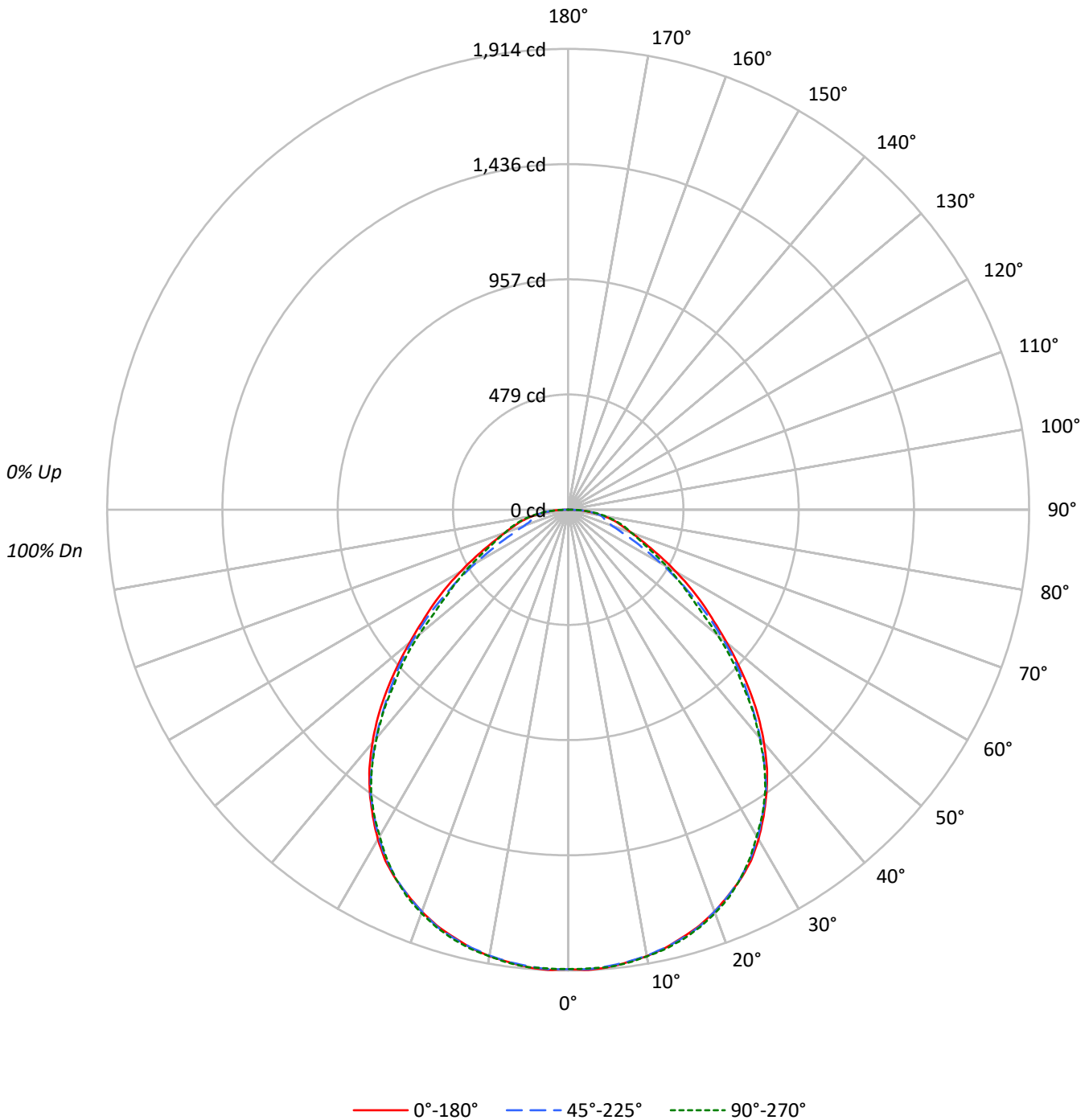
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2567	2567	2567
5°	2576	2571	2576
10°	2573	2569	2574
15°	2560	2565	2572
20°	2543	2543	2553
25°	2514	2509	2511
30°	2456	2443	2431
35°	2359	2352	2343
40°	2222	2181	2172
45°	2033	1977	1941
50°	1797	1761	1693
55°	1598	1489	1432
60°	1392	1192	1278
65°	1202	924	1130
70°	1096	756	1094
75°	1105	815	1162
80°	1151	1061	1225
85°	1200	1263	1357



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.0	4.1
10°-20°	519.1	11.9
20°-30°	777.1	17.8
30°-40°	888.0	20.3
40°-50°	802.8	18.4
50°-60°	577.6	13.2
60°-70°	334.8	7.7
70°-80°	198.6	4.5
80°-90°	88.0	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°	1477.2	33.8
0°-40°	2365.2	54.2
0°-60°	3745.6	85.8
0°-90°	4367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4367.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1908	1908	1908	1908	1908	
5°	1908	1905	1904	1901	1907	181
15°	1838	1842	1842	1839	1846	519
25°	1694	1692	1690	1687	1692	779
35°	1436	1429	1432	1414	1427	895
45°	1068	1050	1039	1029	1020	821
55°	681	668	635	619	610	609
65°	377	335	290	324	355	381
75°	213	178	157	194	224	225
85°	78	84	82	94	88	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1908.2	1908.2	1908.2	1908.2	1908.2
2.5°	1913.7	1906.9	1910.3	1908.2	1907.5
5°	1907.5	1904.8	1903.5	1900.7	1906.9
7.5°	1895.3	1893.2	1893.9	1894.6	1898.7
10°	1883.0	1879.6	1880.3	1881.7	1883.7
12.5°	1863.9	1861.9	1862.6	1863.9	1868.7
15°	1838.1	1841.5	1841.5	1839.4	1846.2
17.5°	1812.2	1811.5	1814.9	1808.8	1818.3
20°	1776.1	1776.7	1776.1	1776.7	1782.9
22.5°	1735.2	1738.6	1736.5	1736.5	1743.4
25°	1693.6	1691.6	1690.2	1686.8	1691.6
27.5°	1643.9	1639.8	1636.4	1629.6	1633.0
30°	1580.5	1581.2	1572.4	1566.2	1564.9
32.5°	1509.7	1509.7	1501.5	1496.7	1500.8
35°	1436.1	1429.3	1432.0	1414.3	1426.6
37.5°	1356.4	1345.5	1339.4	1333.2	1337.3
40°	1265.1	1250.8	1241.9	1229.7	1236.5
42.5°	1169.1	1151.3	1140.4	1131.6	1134.3
45°	1068.2	1049.8	1038.9	1029.4	1019.9
47.5°	961.9	950.4	944.9	932.7	921.8
50°	858.4	854.3	841.4	831.1	808.7
52.5°	763.7	760.3	739.9	722.8	694.2
55°	681.3	668.3	634.9	618.6	610.4
57.5°	597.5	576.4	536.2	534.1	539.6
60°	517.1	491.2	442.8	453.7	474.8
62.5°	444.2	405.4	359.0	384.9	410.1
65°	377.4	335.2	290.2	324.3	354.9
67.5°	322.2	280.0	233.7	279.3	314.7
70°	278.6	235.7	192.1	244.6	278.0
72.5°	242.5	203.7	167.6	217.3	252.1
75°	212.6	177.8	156.7	193.5	223.5
77.5°	182.6	154.6	149.9	172.4	190.8
80°	148.5	135.6	136.9	151.2	158.1
82.5°	111.0	111.7	115.1	126.7	124.0
85°	77.7	83.8	81.8	94.0	87.9
87.5°	42.9	47.0	44.3	53.8	48.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)