

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: P293875

Luminaire Tested: **24GR-LD5-48-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293875  
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-L92765-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4291.0 lumens  
Efficiency: N/A  
Efficacy: 129.2 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

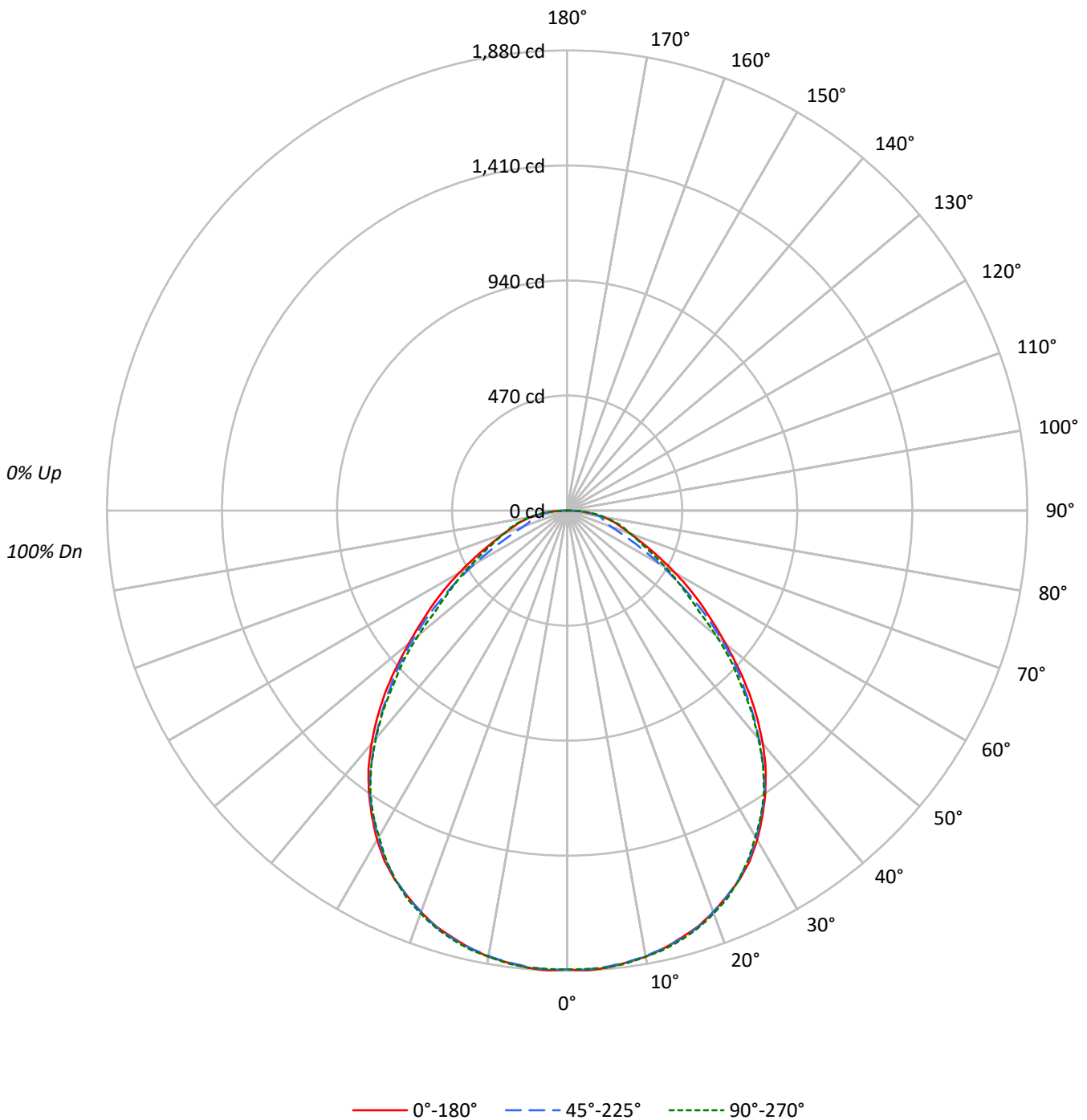
Input Watts (W): 33.201  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2523	2523	2523
5°	2531	2526	2531
10°	2528	2524	2529
15°	2516	2520	2527
20°	2499	2499	2508
25°	2471	2466	2468
30°	2413	2400	2389
35°	2318	2311	2302
40°	2183	2143	2134
45°	1997	1943	1907
50°	1766	1730	1663
55°	1570	1464	1407
60°	1367	1171	1256
65°	1181	908	1110
70°	1077	743	1074
75°	1086	801	1142
80°	1130	1043	1203
85°	1178	1240	1334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	4.1
10°-20°	510.1	11.9
20°-30°	763.6	17.8
30°-40°	872.5	20.3
40°-50°	788.8	18.4
50°-60°	567.5	13.2
60°-70°	329.0	7.7
70°-80°	195.2	4.5
80°-90°	86.4	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°	1451.5	33.8
0°-40°	2324.0	54.2
0°-60°	3680.4	85.8
0°-90°	4291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4291.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1875	1875	1875	1875	1875	
5°	1874	1872	1870	1868	1874	178
15°	1806	1809	1809	1807	1814	510
25°	1664	1662	1661	1658	1662	765
35°	1411	1404	1407	1390	1402	880
45°	1050	1032	1021	1012	1002	806
55°	669	657	624	608	600	599
65°	371	329	285	319	349	374
75°	209	175	154	190	220	221
85°	76	82	80	92	86	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1875.0	1875.0	1875.0	1875.0	1875.0
2.5°	1880.4	1873.7	1877.0	1875.0	1874.3
5°	1874.3	1871.7	1870.3	1867.7	1873.7
7.5°	1862.3	1860.3	1861.0	1861.6	1865.6
10°	1850.2	1846.9	1847.6	1848.9	1850.9
12.5°	1831.5	1829.5	1830.2	1831.5	1836.2
15°	1806.1	1809.4	1809.4	1807.4	1814.1
17.5°	1780.6	1780.0	1783.3	1777.3	1786.7
20°	1745.2	1745.8	1745.2	1745.8	1751.8
22.5°	1705.0	1708.3	1706.3	1706.3	1713.0
25°	1664.2	1662.1	1660.8	1657.5	1662.1
27.5°	1615.3	1611.3	1607.9	1601.2	1604.6
30°	1553.0	1553.7	1545.0	1539.0	1537.6
32.5°	1483.4	1483.4	1475.4	1470.7	1474.7
35°	1411.1	1404.4	1407.1	1389.7	1401.7
37.5°	1332.8	1322.1	1316.1	1310.0	1314.1
40°	1243.1	1229.0	1220.3	1208.3	1215.0
42.5°	1148.7	1131.3	1120.6	1111.9	1114.6
45°	1049.6	1031.6	1020.9	1011.5	1002.1
47.5°	945.2	933.8	928.5	916.4	905.7
50°	843.5	839.4	826.7	816.7	794.6
52.5°	750.4	747.1	727.0	710.2	682.1
55°	669.4	656.7	623.9	607.8	599.8
57.5°	587.1	566.3	526.8	524.8	530.2
60°	508.1	482.6	435.1	445.8	466.6
62.5°	436.5	398.3	352.8	378.2	403.0
65°	370.9	329.3	285.2	318.6	348.8
67.5°	316.6	275.1	229.6	274.5	309.3
70°	273.8	231.6	188.8	240.3	273.1
72.5°	238.3	200.2	164.7	213.5	247.7
75°	208.9	174.7	154.0	190.1	219.6
77.5°	179.4	152.0	147.3	169.4	187.4
80°	145.9	133.2	134.6	148.6	155.3
82.5°	109.1	109.8	113.1	124.5	121.8
85°	76.3	82.3	80.3	92.4	86.4
87.5°	42.2	46.2	43.5	52.9	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)