

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: P293880

Luminaire Tested: **24GR-LD5-48-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293880  
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-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4611.0 lumens  
Efficiency: N/A  
Efficacy: 134.0 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

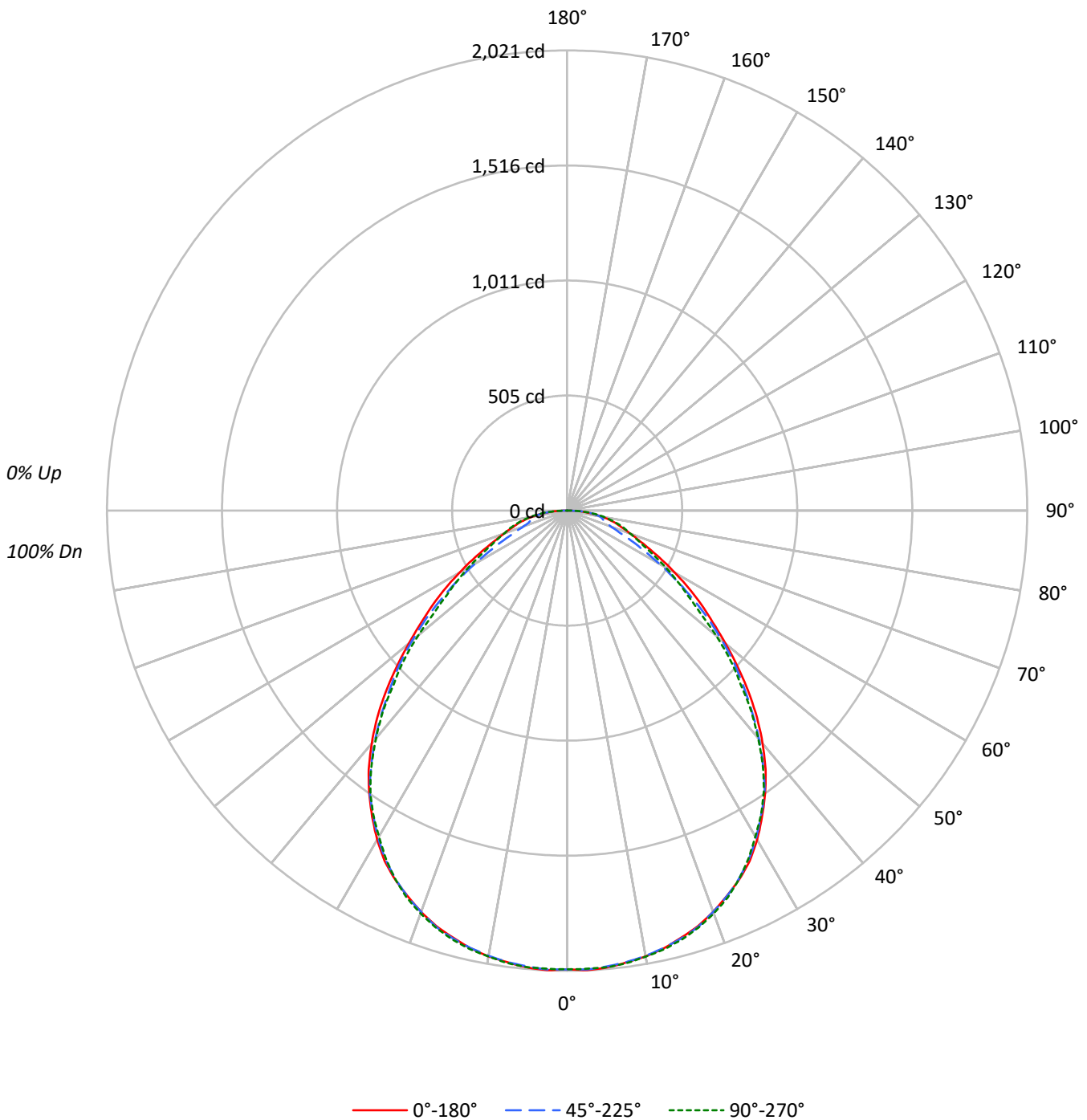
Input Watts (W): 34.41  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2711	2711	2711
5°	2720	2714	2719
10°	2716	2713	2717
15°	2703	2708	2715
20°	2685	2685	2695
25°	2655	2650	2652
30°	2593	2579	2567
35°	2491	2484	2474
40°	2346	2303	2293
45°	2146	2087	2049
50°	1897	1860	1787
55°	1687	1573	1512
60°	1469	1258	1349
65°	1269	975	1193
70°	1157	798	1155
75°	1167	860	1226
80°	1215	1120	1293
85°	1266	1332	1433



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.1	4.1
10°-20°	548.2	11.9
20°-30°	820.5	17.8
30°-40°	937.6	20.3
40°-50°	847.7	18.4
50°-60°	609.8	13.2
60°-70°	353.5	7.7
70°-80°	209.7	4.5
80°-90°	92.9	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°	1559.8	33.8
0°-40°	2497.4	54.2
0°-60°	3954.9	85.8
0°-90°	4611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4611.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2015	2015	2015	2015	2015	
5°	2014	2011	2010	2007	2013	191
15°	1941	1944	1944	1942	1949	548
25°	1788	1786	1785	1781	1786	822
35°	1516	1509	1512	1493	1506	945
45°	1128	1108	1097	1087	1077	867
55°	719	706	670	653	644	644
65°	398	354	306	342	375	402
75°	224	188	165	204	236	237
85°	82	88	86	99	93	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2014.8	2014.8	2014.8	2014.8	2014.8
2.5°	2020.6	2013.4	2017.0	2014.8	2014.1
5°	2014.1	2011.3	2009.8	2006.9	2013.4
7.5°	2001.2	1999.0	1999.7	2000.5	2004.8
10°	1988.2	1984.6	1985.4	1986.8	1989.0
12.5°	1968.1	1965.9	1966.7	1968.1	1973.1
15°	1940.8	1944.4	1944.4	1942.2	1949.4
17.5°	1913.4	1912.7	1916.3	1909.8	1919.9
20°	1875.3	1876.0	1875.3	1876.0	1882.5
22.5°	1832.1	1835.7	1833.6	1833.6	1840.8
25°	1788.3	1786.1	1784.7	1781.1	1786.1
27.5°	1735.7	1731.4	1727.8	1720.6	1724.2
30°	1668.8	1669.6	1660.2	1653.7	1652.3
32.5°	1594.0	1594.0	1585.4	1580.4	1584.7
35°	1516.4	1509.2	1512.0	1493.3	1506.3
37.5°	1432.2	1420.7	1414.2	1407.7	1412.0
40°	1335.8	1320.7	1311.3	1298.4	1305.6
42.5°	1234.4	1215.7	1204.2	1194.8	1197.7
45°	1127.9	1108.5	1097.0	1086.9	1076.8
47.5°	1015.7	1003.5	997.7	984.8	973.3
50°	906.4	902.0	888.4	877.6	853.8
52.5°	806.4	802.8	781.2	763.2	733.0
55°	719.3	705.7	670.4	653.2	644.5
57.5°	630.9	608.6	566.1	564.0	569.7
60°	546.0	518.6	467.6	479.1	501.4
62.5°	469.0	428.0	379.1	406.4	433.0
65°	398.5	353.9	306.4	342.4	374.8
67.5°	340.2	295.6	246.7	294.9	332.3
70°	294.2	248.9	202.9	258.2	293.5
72.5°	256.1	215.1	177.0	229.5	266.2
75°	224.4	187.7	165.4	204.3	235.9
77.5°	192.8	163.3	158.3	182.0	201.4
80°	156.8	143.1	144.6	159.7	166.9
82.5°	117.3	118.0	121.6	133.8	130.9
85°	82.0	88.5	86.3	99.3	92.8
87.5°	45.3	49.6	46.8	56.8	51.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)