

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: P293878

Luminaire Tested: **24GR-LD5-48-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293878
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4560.0 lumens
Efficiency: N/A
Efficacy: 135.1 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

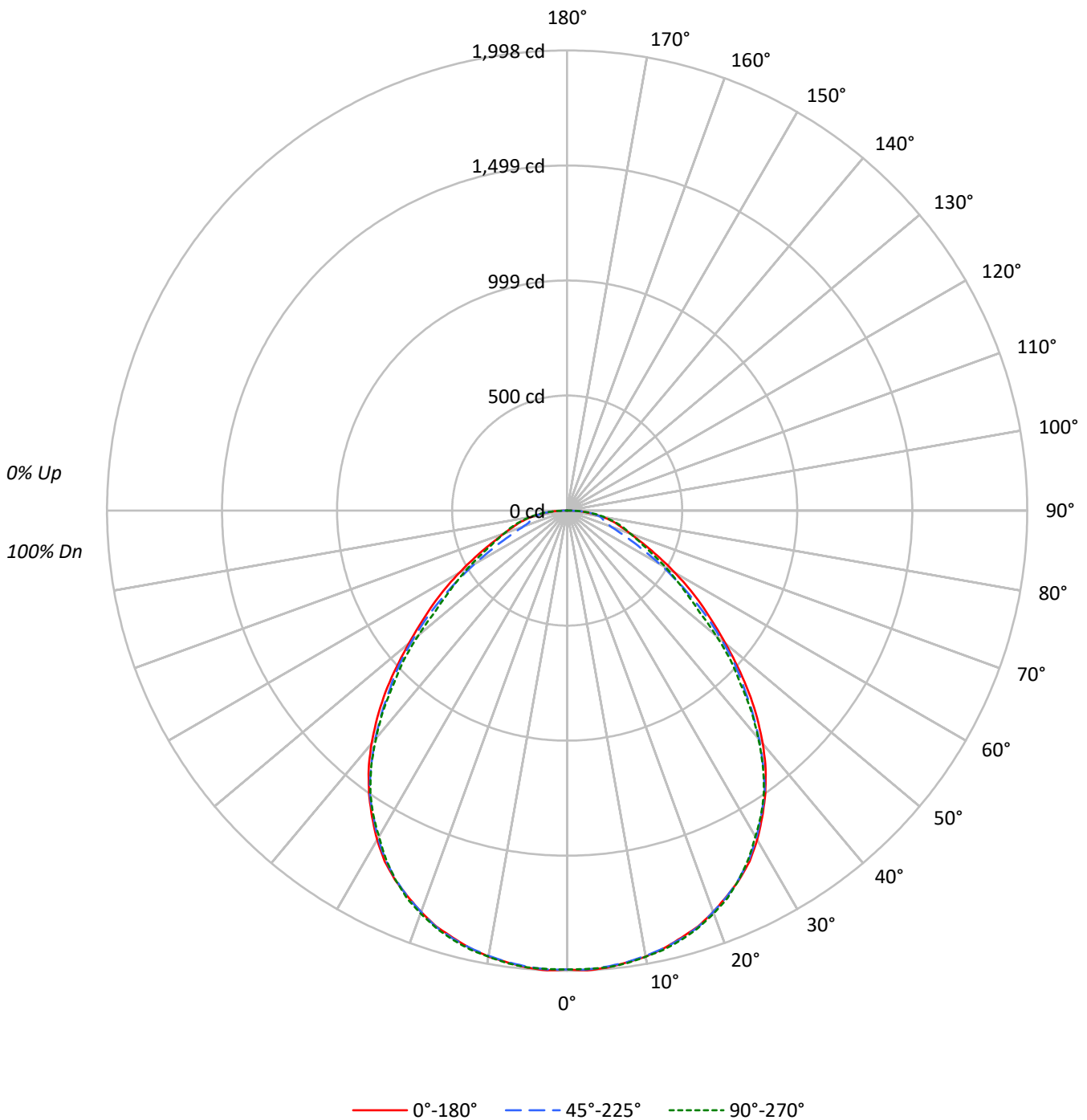
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2681	2681	2681
5°	2690	2685	2689
10°	2686	2682	2687
15°	2673	2678	2685
20°	2655	2655	2666
25°	2625	2620	2622
30°	2564	2551	2539
35°	2463	2456	2447
40°	2320	2278	2268
45°	2122	2064	2026
50°	1876	1839	1768
55°	1669	1555	1495
60°	1453	1244	1334
65°	1255	965	1180
70°	1145	789	1142
75°	1154	850	1213
80°	1202	1108	1278
85°	1252	1318	1417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	4.1
10°-20°	542.1	11.9
20°-30°	811.4	17.8
30°-40°	927.2	20.3
40°-50°	838.3	18.4
50°-60°	603.1	13.2
60°-70°	349.6	7.7
70°-80°	207.4	4.5
80°-90°	91.9	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°	1542.5	33.8
0°-40°	2469.7	54.2
0°-60°	3911.1	85.8
0°-90°	4560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1993	1993	1993	1993	1993	
5°	1992	1989	1988	1985	1991	189
15°	1919	1923	1923	1921	1928	542
25°	1768	1766	1765	1761	1766	813
35°	1500	1492	1495	1477	1490	935
45°	1115	1096	1085	1075	1065	857
55°	711	698	663	646	637	636
65°	394	350	303	339	371	398
75°	222	186	164	202	233	235
85°	81	88	85	98	92	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1992.6	1992.6	1992.6	1992.6	1992.6
2.5°	1998.3	1991.1	1994.7	1992.6	1991.9
5°	1991.9	1989.0	1987.6	1984.7	1991.1
7.5°	1979.0	1976.9	1977.6	1978.3	1982.6
10°	1966.2	1962.7	1963.4	1964.8	1967.0
12.5°	1946.3	1944.2	1944.9	1946.3	1951.3
15°	1919.3	1922.8	1922.8	1920.7	1927.8
17.5°	1892.3	1891.5	1895.1	1888.7	1898.7
20°	1854.6	1855.3	1854.6	1855.3	1861.7
22.5°	1811.9	1815.4	1813.3	1813.3	1820.4
25°	1768.5	1766.3	1764.9	1761.4	1766.3
27.5°	1716.5	1712.3	1708.7	1701.6	1705.2
30°	1650.4	1651.1	1641.9	1635.5	1634.0
32.5°	1576.4	1576.4	1567.9	1562.9	1567.2
35°	1499.6	1492.5	1495.3	1476.8	1489.6
37.5°	1416.3	1405.0	1398.6	1392.2	1396.4
40°	1321.0	1306.1	1296.8	1284.0	1291.1
42.5°	1220.7	1202.2	1190.8	1181.6	1184.4
45°	1115.4	1096.2	1084.8	1074.9	1064.9
47.5°	1004.5	992.4	986.7	973.9	962.5
50°	896.3	892.1	878.5	867.9	844.4
52.5°	797.5	793.9	772.6	754.8	724.9
55°	711.4	697.9	663.0	645.9	637.4
57.5°	623.9	601.8	559.9	557.7	563.4
60°	539.9	512.9	462.4	473.8	495.8
62.5°	463.8	423.3	374.9	401.9	428.2
65°	394.1	350.0	303.0	338.6	370.6
67.5°	336.5	292.4	244.0	291.7	328.7
70°	291.0	246.1	200.6	255.4	290.2
72.5°	253.2	212.7	175.0	226.9	263.2
75°	221.9	185.7	163.6	202.0	233.3
77.5°	190.6	161.5	156.5	180.0	199.2
80°	155.1	141.6	143.0	157.9	165.0
82.5°	116.0	116.7	120.2	132.3	129.5
85°	81.1	87.5	85.4	98.2	91.8
87.5°	44.8	49.1	46.2	56.2	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)