

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: P293879

Luminaire Tested: **24GR-LD5-48-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293879
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4580.0 lumens
Efficiency: N/A
Efficacy: 135.3 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

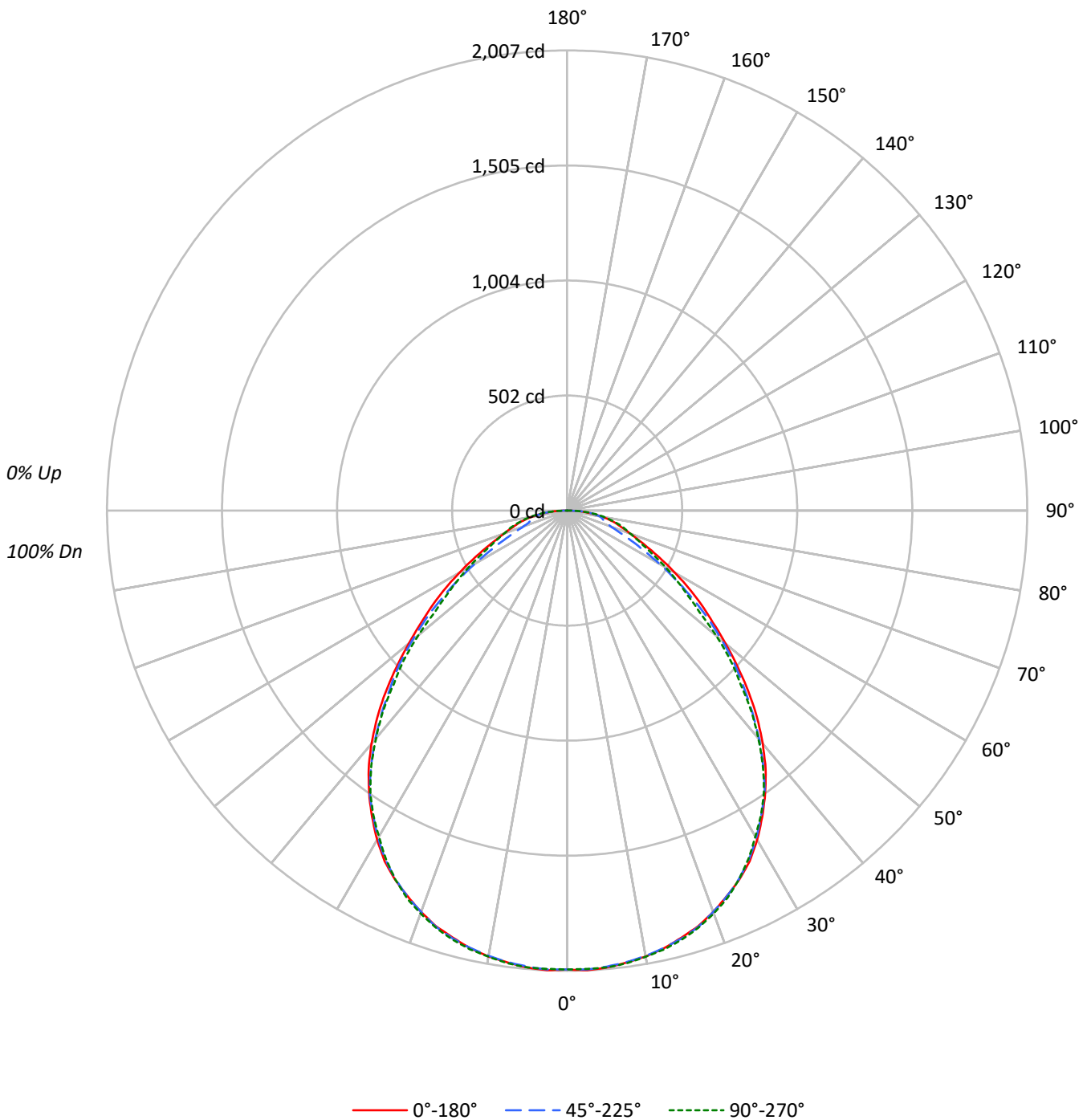
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2693	2693	2693
5°	2702	2696	2701
10°	2698	2694	2699
15°	2685	2690	2697
20°	2667	2667	2677
25°	2637	2632	2634
30°	2575	2562	2550
35°	2474	2467	2458
40°	2330	2288	2278
45°	2132	2073	2035
50°	1885	1847	1775
55°	1676	1562	1502
60°	1459	1250	1340
65°	1260	969	1185
70°	1149	793	1147
75°	1159	854	1219
80°	1207	1113	1285
85°	1258	1323	1423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.8	4.1
10°-20°	544.5	11.9
20°-30°	815.0	17.8
30°-40°	931.3	20.3
40°-50°	842.0	18.4
50°-60°	605.7	13.2
60°-70°	351.2	7.7
70°-80°	208.3	4.5
80°-90°	92.3	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°	1549.3	33.8
0°-40°	2480.6	54.2
0°-60°	3928.3	85.8
0°-90°	4580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2001	2001	2001	2001	2001	
5°	2001	1998	1996	1993	2000	190
15°	1928	1931	1931	1929	1936	544
25°	1776	1774	1773	1769	1774	817
35°	1506	1499	1502	1483	1496	939
45°	1120	1101	1090	1080	1070	861
55°	714	701	666	649	640	639
65°	396	352	304	340	372	400
75°	223	186	164	203	234	236
85°	82	88	86	99	92	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2001.3	2001.3	2001.3	2001.3	2001.3
2.5°	2007.0	1999.9	2003.4	2001.3	2000.6
5°	2000.6	1997.7	1996.3	1993.4	1999.9
7.5°	1987.7	1985.6	1986.3	1987.0	1991.3
10°	1974.9	1971.3	1972.0	1973.4	1975.6
12.5°	1954.9	1952.7	1953.4	1954.9	1959.9
15°	1927.7	1931.3	1931.3	1929.1	1936.3
17.5°	1900.6	1899.8	1903.4	1897.0	1907.0
20°	1862.7	1863.4	1862.7	1863.4	1869.8
22.5°	1819.8	1823.4	1821.2	1821.2	1828.4
25°	1776.2	1774.1	1772.7	1769.1	1774.1
27.5°	1724.1	1719.8	1716.2	1709.1	1712.6
30°	1657.6	1658.3	1649.1	1642.6	1641.2
32.5°	1583.3	1583.3	1574.7	1569.7	1574.0
35°	1506.2	1499.0	1501.9	1483.3	1496.2
37.5°	1422.6	1411.1	1404.7	1398.3	1402.6
40°	1326.8	1311.8	1302.5	1289.7	1296.8
42.5°	1226.1	1207.5	1196.1	1186.8	1189.6
45°	1120.3	1101.0	1089.6	1079.6	1069.6
47.5°	1008.9	996.7	991.0	978.1	966.7
50°	900.3	896.0	882.4	871.7	848.1
52.5°	800.9	797.4	775.9	758.1	728.1
55°	714.5	700.9	665.9	648.8	640.2
57.5°	626.6	604.5	562.3	560.2	565.9
60°	542.3	515.2	464.4	475.9	498.0
62.5°	465.9	425.1	376.5	403.7	430.1
65°	395.8	351.5	304.4	340.1	372.3
67.5°	338.0	293.7	245.1	292.9	330.1
70°	292.2	247.2	201.5	256.5	291.5
72.5°	254.4	213.6	175.8	227.9	264.4
75°	222.9	186.5	164.3	202.9	234.4
77.5°	191.5	162.2	157.2	180.8	200.1
80°	155.8	142.2	143.6	158.6	165.8
82.5°	116.5	117.2	120.7	132.9	130.0
85°	81.5	87.9	85.7	98.6	92.2
87.5°	45.0	49.3	46.4	56.4	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)