

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: P293748

Luminaire Tested: **24GR-LD5-48-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293748
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-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4745.0 lumens
Efficiency: N/A
Efficacy: 143.7 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

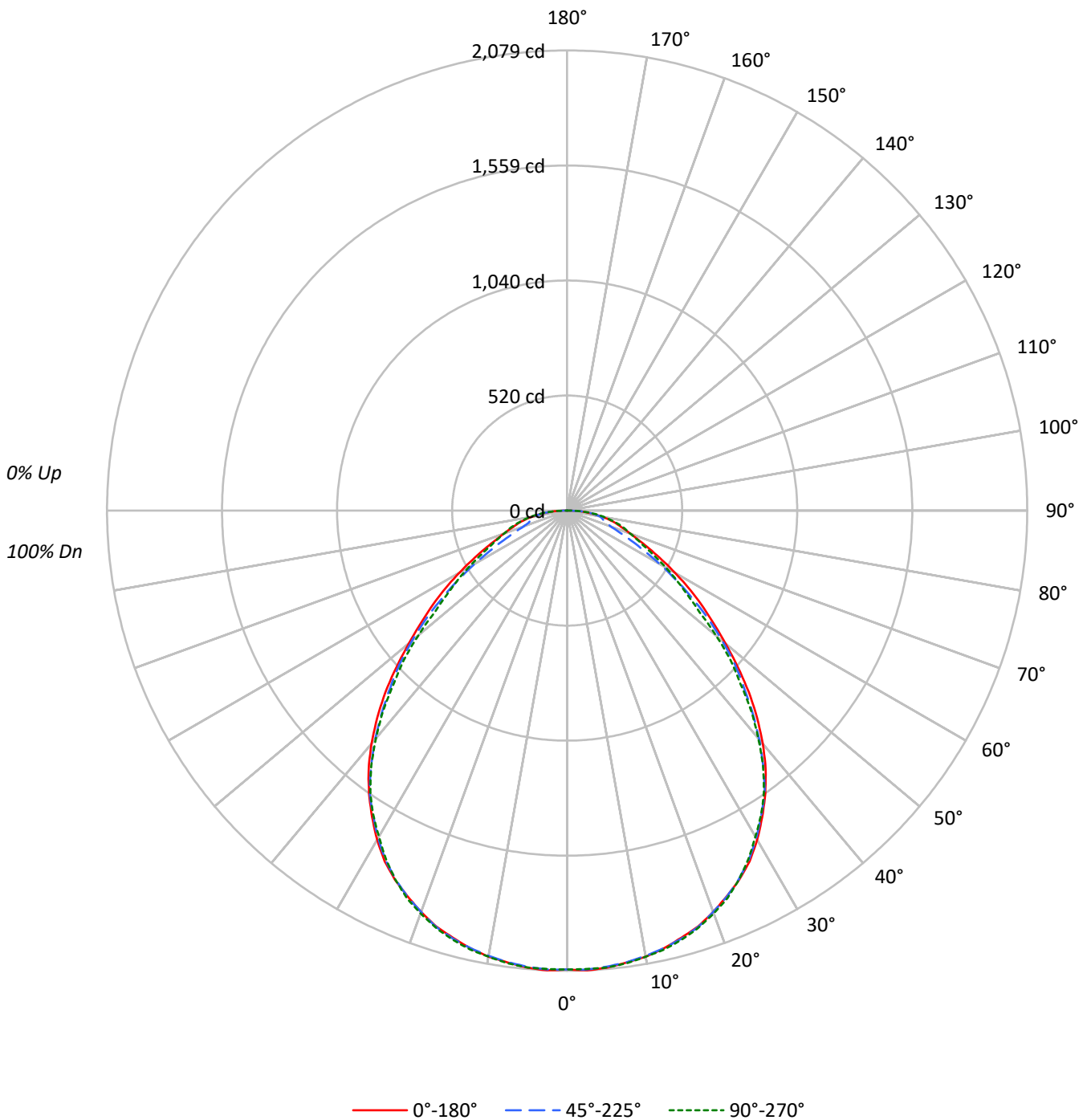
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2790	2790	2790
5°	2799	2793	2798
10°	2795	2791	2796
15°	2782	2787	2794
20°	2763	2763	2774
25°	2732	2726	2729
30°	2668	2654	2642
35°	2563	2556	2546
40°	2414	2370	2360
45°	2209	2148	2109
50°	1952	1914	1839
55°	1736	1618	1556
60°	1512	1295	1388
65°	1306	1004	1228
70°	1191	821	1188
75°	1201	885	1262
80°	1251	1153	1330
85°	1303	1371	1474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	4.1
10°-20°	564.1	11.9
20°-30°	844.3	17.8
30°-40°	964.8	20.3
40°-50°	872.3	18.4
50°-60°	627.6	13.2
60°-70°	363.8	7.7
70°-80°	215.8	4.5
80°-90°	95.6	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°	1605.1	33.8
0°-40°	2569.9	54.2
0°-60°	4069.8	85.8
0°-90°	4745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2073	2073	2073	2073	2073	
5°	2073	2070	2068	2065	2072	197
15°	1997	2001	2001	1999	2006	564
25°	1840	1838	1836	1833	1838	846
35°	1560	1553	1556	1537	1550	973
45°	1161	1141	1129	1118	1108	892
55°	740	726	690	672	663	662
65°	410	364	315	352	386	414
75°	231	193	170	210	243	244
85°	84	91	89	102	96	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2073.4	2073.4	2073.4	2073.4	2073.4
2.5°	2079.3	2071.9	2075.6	2073.4	2072.7
5°	2072.7	2069.7	2068.2	2065.3	2071.9
7.5°	2059.3	2057.1	2057.9	2058.6	2063.0
10°	2046.0	2042.3	2043.1	2044.5	2046.8
12.5°	2025.3	2023.1	2023.8	2025.3	2030.5
15°	1997.2	2000.9	2000.9	1998.6	2006.0
17.5°	1969.0	1968.3	1972.0	1965.3	1975.7
20°	1929.8	1930.5	1929.8	1930.5	1937.2
22.5°	1885.4	1889.1	1886.9	1886.9	1894.3
25°	1840.2	1838.0	1836.5	1832.8	1838.0
27.5°	1786.2	1781.7	1778.0	1770.6	1774.3
30°	1717.3	1718.1	1708.5	1701.8	1700.3
32.5°	1640.4	1640.4	1631.5	1626.3	1630.7
35°	1560.4	1553.0	1556.0	1536.7	1550.1
37.5°	1473.8	1462.0	1455.3	1448.6	1453.1
40°	1374.6	1359.1	1349.4	1336.1	1343.5
42.5°	1270.2	1251.0	1239.2	1229.5	1232.5
45°	1160.7	1140.7	1128.9	1118.5	1108.1
47.5°	1045.2	1032.6	1026.7	1013.4	1001.5
50°	932.7	928.3	914.2	903.1	878.7
52.5°	829.8	826.1	803.9	785.4	754.3
55°	740.2	726.2	689.9	672.1	663.3
57.5°	649.2	626.2	582.6	580.3	586.3
60°	561.8	533.7	481.2	493.0	515.9
62.5°	482.6	440.4	390.1	418.2	445.6
65°	410.1	364.2	315.3	352.4	385.7
67.5°	350.1	304.2	253.9	303.5	342.0
70°	302.8	256.1	208.7	265.7	302.0
72.5°	263.5	221.3	182.1	236.1	273.9
75°	231.0	193.2	170.3	210.2	242.8
77.5°	198.4	168.0	162.9	187.3	207.3
80°	161.4	147.3	148.8	164.3	171.7
82.5°	120.7	121.4	125.1	137.7	134.7
85°	84.4	91.0	88.8	102.2	95.5
87.5°	46.6	51.1	48.1	58.5	52.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)