

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: P293749

Luminaire Tested: **24GR-LD5-48-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293749
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4849.0 lumens
Efficiency: N/A
Efficacy: 146.0 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

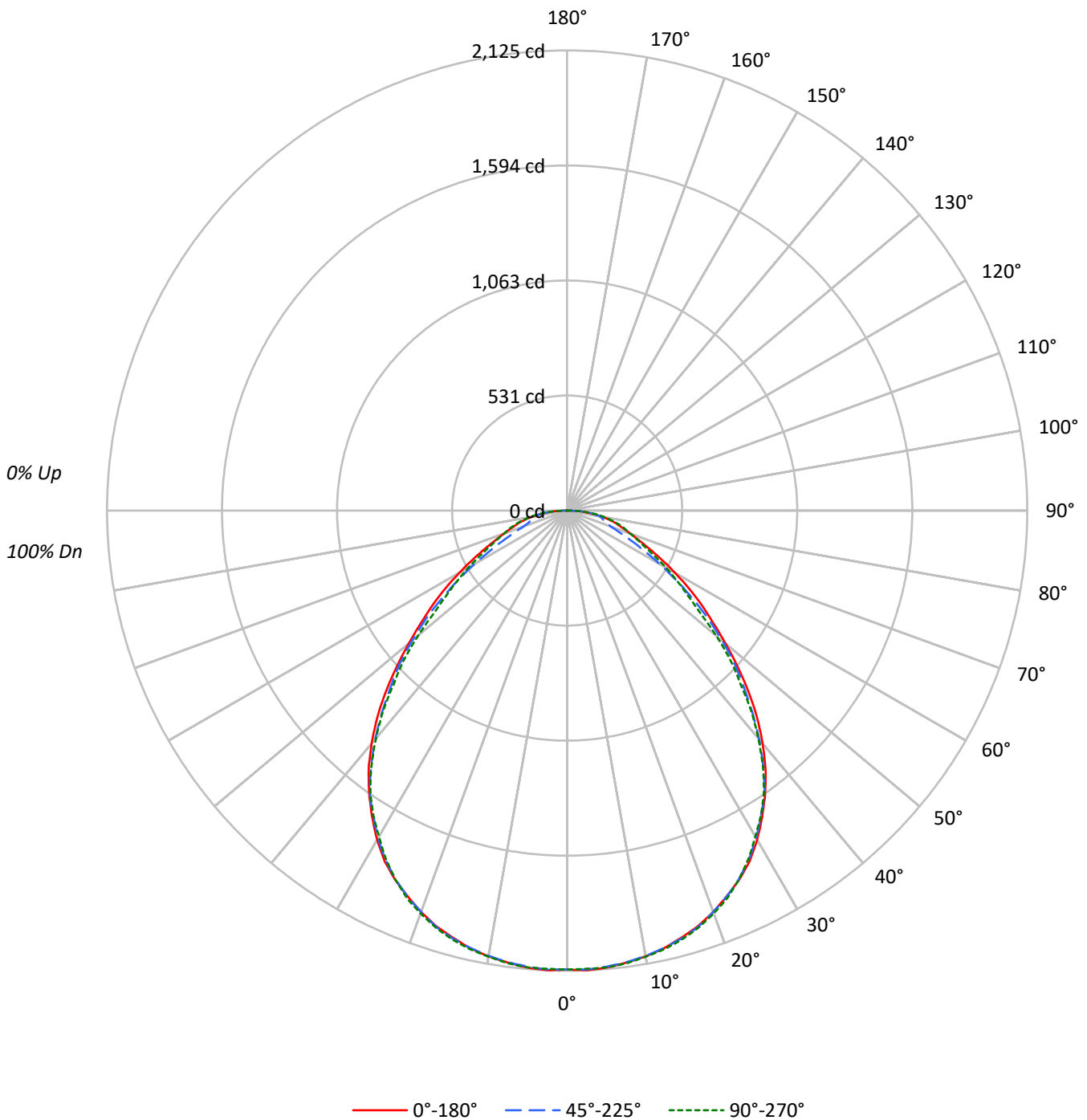
Input Watts (W): 33.201
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2851	2851	2851
5°	2861	2855	2860
10°	2857	2852	2858
15°	2843	2848	2856
20°	2824	2824	2835
25°	2792	2786	2788
30°	2727	2712	2700
35°	2619	2612	2602
40°	2467	2422	2412
45°	2257	2195	2155
50°	1995	1955	1879
55°	1775	1654	1590
60°	1545	1323	1419
65°	1334	1026	1255
70°	1217	839	1214
75°	1227	905	1290
80°	1278	1178	1360
85°	1331	1402	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	4.1
10°-20°	576.4	11.9
20°-30°	862.9	17.8
30°-40°	986.0	20.3
40°-50°	891.4	18.4
50°-60°	641.3	13.2
60°-70°	371.8	7.7
70°-80°	220.5	4.5
80°-90°	97.7	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°	1640.3	33.8
0°-40°	2626.3	54.2
0°-60°	4159.0	85.8
0°-90°	4849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2119	2119	2119	2119	2119	
5°	2118	2115	2114	2110	2117	201
15°	2041	2045	2045	2042	2050	576
25°	1881	1878	1877	1873	1878	865
35°	1595	1587	1590	1570	1584	994
45°	1186	1166	1154	1143	1132	911
55°	756	742	705	687	678	677
65°	419	372	322	360	394	423
75°	236	197	174	215	248	249
85°	86	93	91	104	98	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2118.8	2118.8	2118.8	2118.8	2118.8
2.5°	2124.9	2117.3	2121.1	2118.8	2118.1
5°	2118.1	2115.1	2113.5	2110.5	2117.3
7.5°	2104.5	2102.2	2103.0	2103.7	2108.3
10°	2090.9	2087.1	2087.8	2089.3	2091.6
12.5°	2069.7	2067.4	2068.2	2069.7	2075.0
15°	2040.9	2044.7	2044.7	2042.4	2050.0
17.5°	2012.2	2011.4	2015.2	2008.4	2019.0
20°	1972.1	1972.8	1972.1	1972.8	1979.7
22.5°	1926.7	1930.5	1928.2	1928.2	1935.8
25°	1880.6	1878.3	1876.8	1873.0	1878.3
27.5°	1825.3	1820.8	1817.0	1809.5	1813.2
30°	1755.0	1755.7	1745.9	1739.1	1737.6
32.5°	1676.3	1676.3	1667.2	1661.9	1666.5
35°	1594.6	1587.1	1590.1	1570.4	1584.0
37.5°	1506.1	1494.0	1487.2	1480.4	1484.9
40°	1404.7	1388.9	1379.0	1365.4	1373.0
42.5°	1298.1	1278.4	1266.3	1256.5	1259.5
45°	1186.1	1165.7	1153.6	1143.0	1132.4
47.5°	1068.1	1055.3	1049.2	1035.6	1023.5
50°	953.1	948.6	934.2	922.9	897.9
52.5°	848.0	844.2	821.5	802.6	770.8
55°	756.5	742.1	705.0	686.9	677.8
57.5°	663.4	640.0	595.3	593.1	599.1
60°	574.2	545.4	491.7	503.8	527.3
62.5°	493.2	450.1	398.7	427.4	455.4
65°	419.1	372.2	322.3	360.1	394.1
67.5°	357.8	310.9	259.5	310.1	349.5
70°	309.4	261.7	213.3	271.6	308.6
72.5°	269.3	226.2	186.1	241.3	279.9
75°	236.0	197.4	174.0	214.8	248.1
77.5°	202.7	171.7	166.4	191.4	211.8
80°	164.9	150.5	152.0	167.9	175.5
82.5°	123.3	124.1	127.8	140.7	137.7
85°	86.2	93.0	90.8	104.4	97.6
87.5°	47.7	52.2	49.2	59.8	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)