

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: P293872

Luminaire Tested: **24GR-LD5-48-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293872
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3807.0 lumens
Efficiency: N/A
Efficacy: 116.3 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

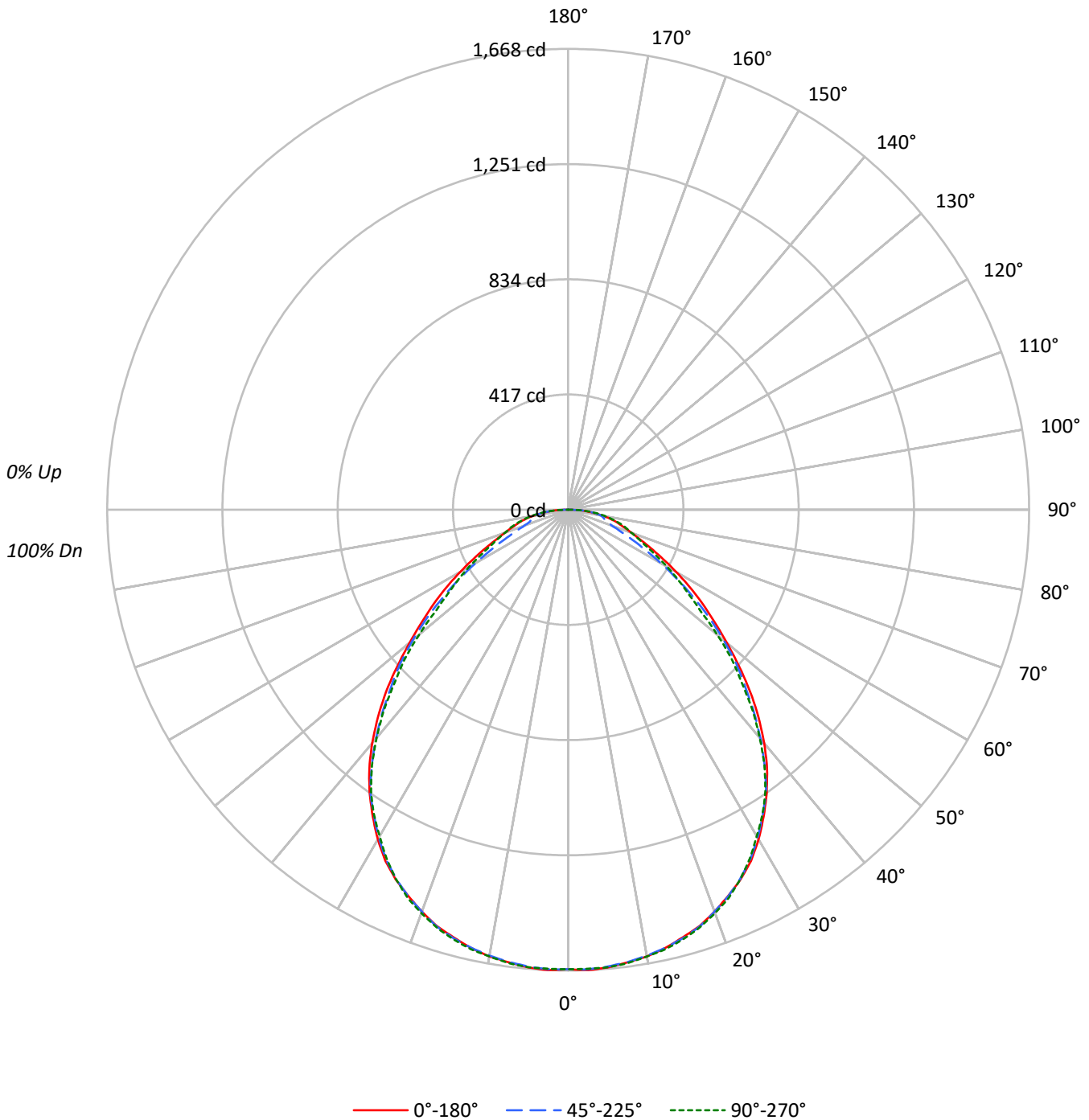
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2238	2238	2238
5°	2246	2241	2245
10°	2243	2240	2244
15°	2232	2236	2242
20°	2217	2217	2225
25°	2192	2188	2189
30°	2141	2130	2119
35°	2056	2051	2043
40°	1937	1902	1893
45°	1772	1723	1692
50°	1566	1535	1476
55°	1393	1298	1248
60°	1213	1039	1114
65°	1047	805	985
70°	956	659	953
75°	963	710	1013
80°	1003	925	1068
85°	1045	1101	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	4.1
10°-20°	452.6	11.9
20°-30°	677.4	17.8
30°-40°	774.1	20.3
40°-50°	699.9	18.4
50°-60°	503.5	13.2
60°-70°	291.9	7.7
70°-80°	173.2	4.5
80°-90°	76.7	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°	1287.8	33.8
0°-40°	2061.9	54.2
0°-60°	3265.3	85.8
0°-90°	3807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1664	1664	1664	1664	1664	
5°	1663	1661	1659	1657	1662	158
15°	1602	1605	1605	1604	1610	452
25°	1476	1475	1474	1470	1475	679
35°	1252	1246	1248	1233	1244	781
45°	931	915	906	897	889	715
55°	594	583	554	539	532	531
65°	329	292	253	283	309	332
75°	185	155	137	169	195	196
85°	68	73	71	82	77	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1663.5	1663.5	1663.5	1663.5	1663.5
2.5°	1668.3	1662.3	1665.3	1663.5	1662.9
5°	1662.9	1660.6	1659.4	1657.0	1662.3
7.5°	1652.2	1650.5	1651.1	1651.6	1655.2
10°	1641.6	1638.6	1639.2	1640.4	1642.1
12.5°	1624.9	1623.1	1623.7	1624.9	1629.1
15°	1602.4	1605.3	1605.3	1603.5	1609.5
17.5°	1579.8	1579.2	1582.2	1576.8	1585.1
20°	1548.3	1548.9	1548.3	1548.9	1554.2
22.5°	1512.7	1515.6	1513.9	1513.9	1519.8
25°	1476.4	1474.7	1473.5	1470.5	1474.7
27.5°	1433.1	1429.5	1426.6	1420.6	1423.6
30°	1377.9	1378.5	1370.7	1365.4	1364.2
32.5°	1316.1	1316.1	1309.0	1304.8	1308.4
35°	1252.0	1246.0	1248.4	1232.9	1243.6
37.5°	1182.5	1173.0	1167.6	1162.3	1165.8
40°	1102.9	1090.4	1082.7	1072.0	1077.9
42.5°	1019.1	1003.7	994.2	986.5	988.9
45°	931.2	915.2	905.7	897.4	889.1
47.5°	838.6	828.5	823.7	813.1	803.6
50°	748.3	744.8	733.5	724.6	705.0
52.5°	665.8	662.8	645.0	630.1	605.2
55°	593.9	582.6	553.5	539.3	532.1
57.5°	520.9	502.4	467.4	465.6	470.4
60°	450.8	428.2	386.0	395.5	414.0
62.5°	387.2	353.4	313.0	335.6	357.5
65°	329.0	292.2	253.0	282.7	309.4
67.5°	280.9	244.1	203.7	243.5	274.4
70°	242.9	205.5	167.5	213.2	242.3
72.5°	211.4	177.6	146.1	189.5	219.7
75°	185.3	155.0	136.6	168.7	194.8
77.5°	159.2	134.8	130.7	150.3	166.3
80°	129.5	118.2	119.4	131.8	137.8
82.5°	96.8	97.4	100.4	110.5	108.1
85°	67.7	73.1	71.3	82.0	76.6
87.5°	37.4	41.0	38.6	46.9	42.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)