

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: P293867

Luminaire Tested: **24GR-LD5-42-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293867
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-LD5-42-A125-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3805.0 lumens
Efficiency: N/A
Efficacy: 133.3 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

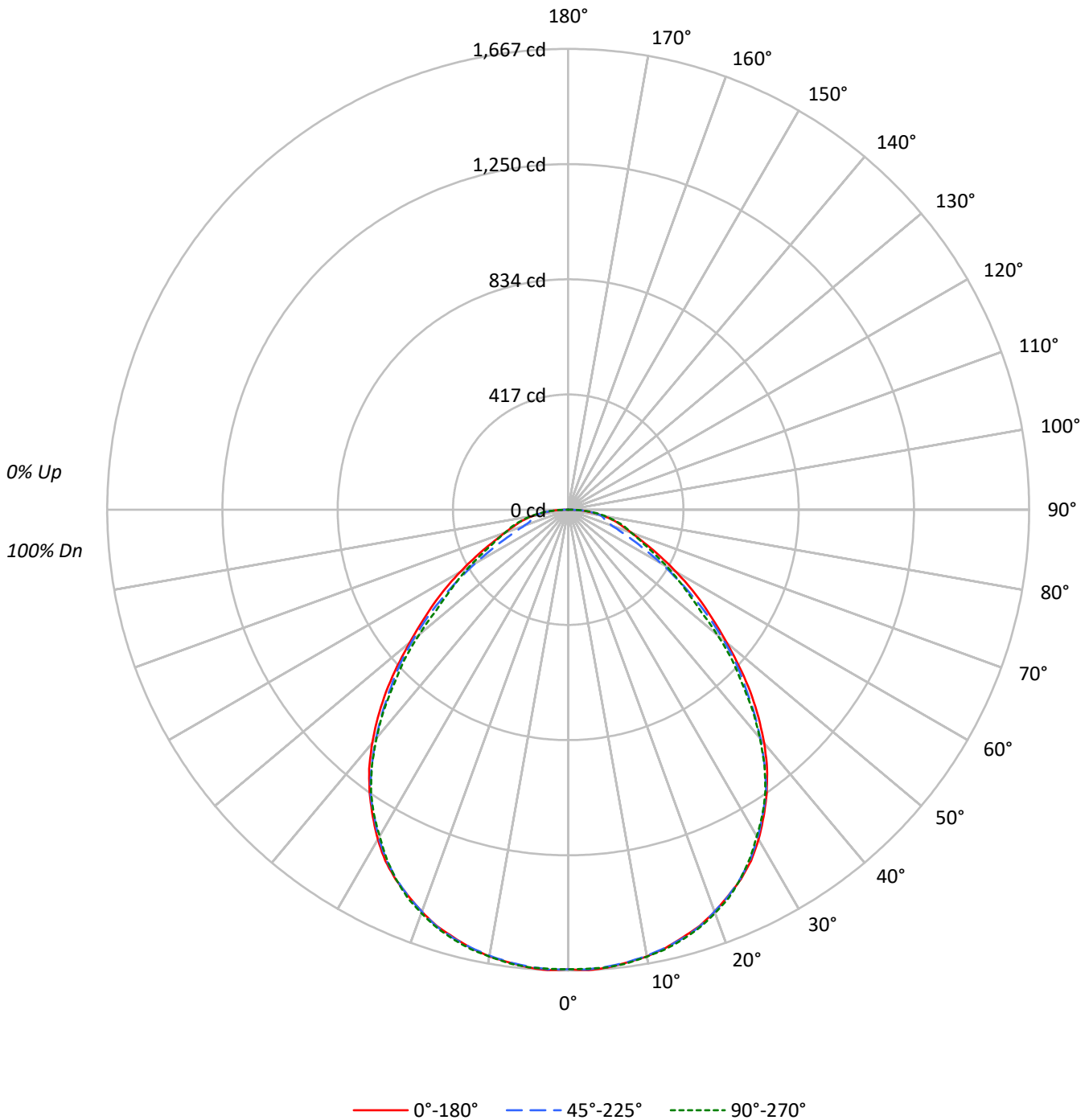
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2237	2237	2237
5°	2245	2240	2244
10°	2242	2238	2242
15°	2231	2235	2241
20°	2216	2216	2224
25°	2191	2186	2188
30°	2140	2128	2118
35°	2055	2049	2042
40°	1936	1901	1892
45°	1771	1722	1691
50°	1566	1535	1475
55°	1392	1298	1248
60°	1212	1038	1113
65°	1047	805	985
70°	955	659	953
75°	963	710	1012
80°	1003	924	1067
85°	1045	1099	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	4.1
10°-20°	452.3	11.9
20°-30°	677.1	17.8
30°-40°	773.7	20.3
40°-50°	699.5	18.4
50°-60°	503.2	13.2
60°-70°	291.7	7.7
70°-80°	173.1	4.5
80°-90°	76.6	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°	1287.1	33.8
0°-40°	2060.8	54.2
0°-60°	3263.5	85.8
0°-90°	3805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1662	1660	1658	1656	1662	158
15°	1602	1604	1604	1603	1609	452
25°	1476	1474	1473	1470	1474	678
35°	1251	1245	1248	1232	1243	780
45°	931	915	905	897	889	715
55°	594	582	553	539	532	531
65°	329	292	253	283	309	332
75°	185	155	136	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°	1662.7	1662.7	1662.7	1662.7	1662.7
2.5°	1667.4	1661.5	1664.4	1662.7	1662.1
5°	1662.1	1659.7	1658.5	1656.1	1661.5
7.5°	1651.4	1649.6	1650.2	1650.8	1654.3
10°	1640.7	1637.7	1638.3	1639.5	1641.3
12.5°	1624.1	1622.3	1622.9	1624.1	1628.2
15°	1601.5	1604.5	1604.5	1602.7	1608.6
17.5°	1579.0	1578.4	1581.3	1576.0	1584.3
20°	1547.5	1548.1	1547.5	1548.1	1553.4
22.5°	1511.9	1514.8	1513.1	1513.1	1519.0
25°	1475.7	1473.9	1472.7	1469.7	1473.9
27.5°	1432.3	1428.8	1425.8	1419.9	1422.8
30°	1377.1	1377.7	1370.0	1364.7	1363.5
32.5°	1315.4	1315.4	1308.3	1304.1	1307.7
35°	1251.3	1245.4	1247.7	1232.3	1243.0
37.5°	1181.8	1172.3	1167.0	1161.7	1165.2
40°	1102.3	1089.8	1082.1	1071.4	1077.4
42.5°	1018.6	1003.2	993.7	986.0	988.3
45°	930.8	914.7	905.2	896.9	888.6
47.5°	838.2	828.1	823.3	812.6	803.1
50°	747.9	744.4	733.1	724.2	704.6
52.5°	665.4	662.4	644.6	629.8	604.9
55°	593.6	582.3	553.2	539.0	531.9
57.5°	520.6	502.2	467.2	465.4	470.1
60°	450.5	428.0	385.8	395.3	413.7
62.5°	387.0	353.2	312.8	335.4	357.3
65°	328.9	292.0	252.9	282.6	309.3
67.5°	280.8	244.0	203.6	243.4	274.2
70°	242.8	205.4	167.4	213.1	242.2
72.5°	211.3	177.5	146.0	189.4	219.6
75°	185.2	154.9	136.5	168.6	194.7
77.5°	159.1	134.7	130.6	150.2	166.2
80°	129.4	118.1	119.3	131.8	137.7
82.5°	96.8	97.3	100.3	110.4	108.0
85°	67.7	73.0	71.2	81.9	76.6
87.5°	37.4	41.0	38.6	46.9	42.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)