

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: P293738

Luminaire Tested: **24GR-LD5-42-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293738
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-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3965.0 lumens
Efficiency: N/A
Efficacy: 142.6 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

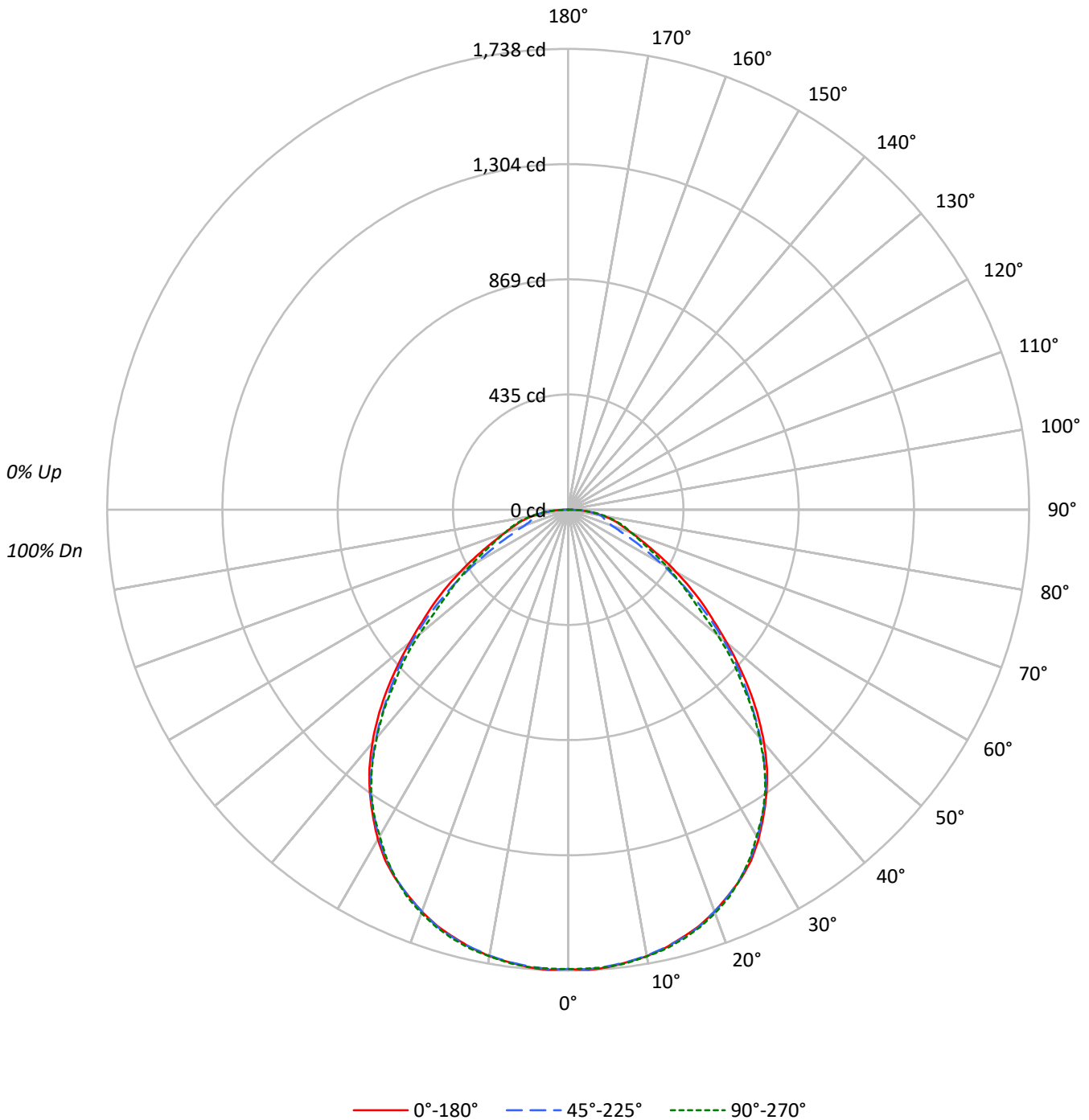
Input Watts (W): 27.807
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2331	2331	2331
5°	2339	2334	2338
10°	2336	2332	2337
15°	2325	2329	2335
20°	2309	2309	2318
25°	2283	2278	2280
30°	2229	2218	2207
35°	2142	2136	2128
40°	2018	1981	1972
45°	1846	1795	1762
50°	1631	1599	1537
55°	1451	1352	1300
60°	1263	1082	1160
65°	1091	839	1026
70°	995	686	993
75°	1003	740	1055
80°	1044	963	1112
85°	1088	1145	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	4.1
10°-20°	471.4	11.9
20°-30°	705.6	17.8
30°-40°	806.2	20.3
40°-50°	728.9	18.4
50°-60°	524.4	13.2
60°-70°	304.0	7.7
70°-80°	180.3	4.5
80°-90°	79.9	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°	1341.3	33.8
0°-40°	2147.5	54.2
0°-60°	3400.8	85.8
0°-90°	3965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1732	1730	1728	1726	1731	165
15°	1669	1672	1672	1670	1676	471
25°	1538	1536	1535	1532	1536	707
35°	1304	1298	1300	1284	1295	813
45°	970	953	943	935	926	745
55°	619	607	576	562	554	553
65°	343	304	264	294	322	346
75°	193	161	142	176	203	204
85°	70	76	74	85	80	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.6	1732.6	1732.6	1732.6	1732.6
2.5°	1737.5	1731.3	1734.4	1732.6	1731.9
5°	1731.9	1729.5	1728.2	1725.8	1731.3
7.5°	1720.8	1719.0	1719.6	1720.2	1723.9
10°	1709.7	1706.6	1707.2	1708.4	1710.3
12.5°	1692.4	1690.5	1691.1	1692.4	1696.7
15°	1668.9	1671.9	1671.9	1670.1	1676.3
17.5°	1645.4	1644.7	1647.8	1642.3	1650.9
20°	1612.6	1613.2	1612.6	1613.2	1618.8
22.5°	1575.5	1578.5	1576.7	1576.7	1582.9
25°	1537.7	1535.9	1534.6	1531.5	1535.9
27.5°	1492.6	1488.9	1485.8	1479.6	1482.7
30°	1435.0	1435.7	1427.6	1422.1	1420.8
32.5°	1370.7	1370.7	1363.3	1359.0	1362.7
35°	1303.9	1297.7	1300.2	1284.1	1295.3
37.5°	1231.5	1221.6	1216.1	1210.5	1214.2
40°	1148.7	1135.7	1127.6	1116.5	1122.7
42.5°	1061.4	1045.4	1035.5	1027.4	1029.9
45°	969.9	953.2	943.3	934.6	926.0
47.5°	873.4	862.9	857.9	846.8	836.9
50°	779.4	775.7	763.9	754.6	734.2
52.5°	693.4	690.3	671.7	656.3	630.3
55°	618.6	606.8	576.5	561.6	554.2
57.5°	542.5	523.3	486.8	484.9	489.9
60°	469.5	446.0	402.1	412.0	431.1
62.5°	403.3	368.0	326.0	349.5	372.4
65°	342.7	304.3	263.5	294.4	322.3
67.5°	292.6	254.2	212.2	253.6	285.8
70°	253.0	214.0	174.4	222.1	252.4
72.5°	220.2	184.9	152.2	197.3	228.9
75°	193.0	161.4	142.3	175.7	202.9
77.5°	165.8	140.4	136.1	156.5	173.2
80°	134.8	123.1	124.3	137.3	143.5
82.5°	100.8	101.4	104.5	115.1	112.6
85°	70.5	76.1	74.2	85.4	79.8
87.5°	39.0	42.7	40.2	48.9	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)