

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: P293870

Luminaire Tested: **24GR-LD5-42-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293870
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3959.0 lumens
Efficiency: N/A
Efficacy: 137.3 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

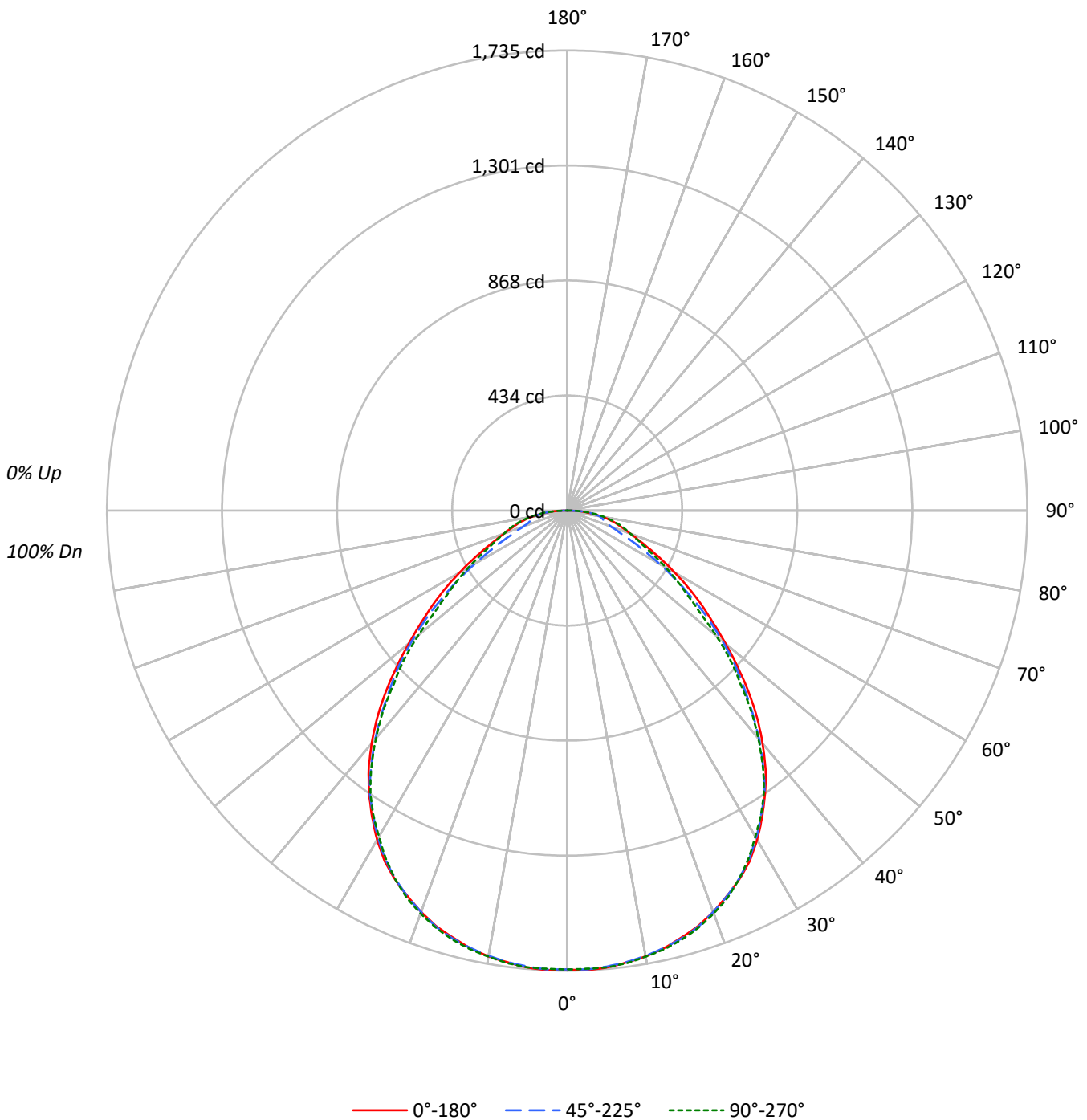
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2328	2328	2328
5°	2336	2331	2335
10°	2332	2329	2333
15°	2321	2325	2331
20°	2305	2305	2314
25°	2279	2275	2277
30°	2226	2215	2204
35°	2138	2132	2124
40°	2014	1978	1969
45°	1843	1792	1759
50°	1629	1597	1535
55°	1449	1350	1298
60°	1262	1080	1158
65°	1089	838	1025
70°	994	685	991
75°	1002	739	1053
80°	1043	962	1110
85°	1087	1144	1230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	4.1
10°-20°	470.6	11.9
20°-30°	704.5	17.8
30°-40°	805.0	20.3
40°-50°	727.8	18.4
50°-60°	523.6	13.2
60°-70°	303.6	7.7
70°-80°	180.1	4.5
80°-90°	79.8	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°	1339.2	33.8
0°-40°	2144.2	54.2
0°-60°	3395.6	85.8
0°-90°	3959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1730	1730	1730	1730	1730	
5°	1729	1727	1726	1723	1729	164
15°	1666	1669	1669	1668	1674	470
25°	1535	1534	1532	1529	1534	706
35°	1302	1296	1298	1282	1293	812
45°	968	952	942	933	925	744
55°	618	606	576	561	553	553
65°	342	304	263	294	322	345
75°	193	161	142	175	203	204
85°	70	76	74	85	80	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.9	1729.9	1729.9	1729.9	1729.9
2.5°	1734.9	1728.7	1731.8	1729.9	1729.3
5°	1729.3	1726.9	1725.6	1723.2	1728.7
7.5°	1718.2	1716.4	1717.0	1717.6	1721.3
10°	1707.1	1704.0	1704.6	1705.9	1707.7
12.5°	1689.8	1687.9	1688.6	1689.8	1694.1
15°	1666.3	1669.4	1669.4	1667.6	1673.7
17.5°	1642.9	1642.2	1645.3	1639.8	1648.4
20°	1610.1	1610.7	1610.1	1610.7	1616.3
22.5°	1573.1	1576.2	1574.3	1574.3	1580.5
25°	1535.4	1533.5	1532.3	1529.2	1533.5
27.5°	1490.3	1486.6	1483.5	1477.3	1480.4
30°	1432.9	1433.5	1425.5	1419.9	1418.7
32.5°	1368.6	1368.6	1361.2	1356.9	1360.6
35°	1301.9	1295.8	1298.2	1282.2	1293.3
37.5°	1229.7	1219.8	1214.2	1208.7	1212.4
40°	1146.9	1133.9	1125.9	1114.8	1121.0
42.5°	1059.8	1043.8	1033.9	1025.9	1028.3
45°	968.4	951.7	941.9	933.2	924.6
47.5°	872.1	861.6	856.6	845.5	835.6
50°	778.2	774.5	762.8	753.5	733.1
52.5°	692.3	689.3	670.7	655.3	629.4
55°	617.6	605.9	575.6	560.8	553.4
57.5°	541.7	522.5	486.1	484.2	489.2
60°	468.8	445.3	401.5	411.3	430.5
62.5°	402.7	367.5	325.5	349.0	371.8
65°	342.2	303.9	263.1	294.0	321.8
67.5°	292.1	253.8	211.8	253.2	285.3
70°	252.6	213.7	174.2	221.7	252.0
72.5°	219.9	184.7	151.9	197.0	228.5
75°	192.7	161.2	142.1	175.4	202.6
77.5°	165.5	140.2	135.9	156.3	172.9
80°	134.6	122.9	124.1	137.1	143.3
82.5°	100.7	101.3	104.4	114.9	112.4
85°	70.4	76.0	74.1	85.2	79.7
87.5°	38.9	42.6	40.1	48.8	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)