

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: P293859

Luminaire Tested: **24GR-LD5-38-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293859
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-LD5-38-A125-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3564.0 lumens
Efficiency: N/A
Efficacy: 137.4 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

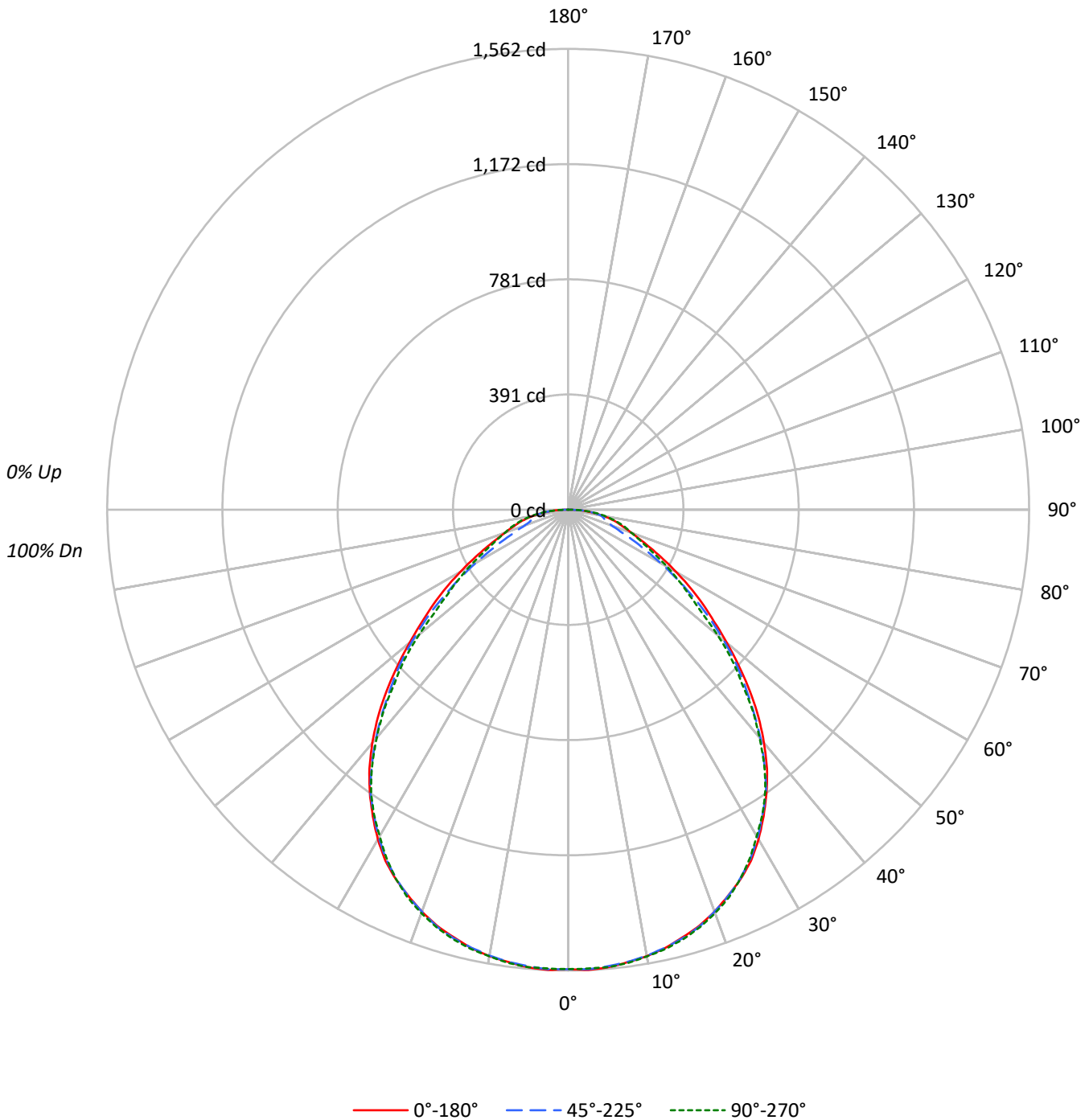
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293859

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P293859

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L92765-W2A1-U-5000K

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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2095	2095	2095
5°	2103	2098	2102
10°	2100	2097	2100
15°	2090	2093	2099
20°	2075	2075	2083
25°	2052	2048	2049
30°	2004	1994	1984
35°	1925	1920	1912
40°	1813	1780	1772
45°	1659	1613	1584
50°	1467	1437	1382
55°	1304	1216	1169
60°	1136	973	1043
65°	981	754	922
70°	895	617	892
75°	902	665	948
80°	939	866	1000
85°	979	1030	1107



TEST NUMBER: P293859

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	4.1
10°-20°	423.7	11.9
20°-30°	634.2	17.8
30°-40°	724.7	20.3
40°-50°	655.2	18.4
50°-60°	471.4	13.2
60°-70°	273.3	7.7
70°-80°	162.1	4.5
80°-90°	71.8	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°	1205.6	33.8
0°-40°	1930.3	54.2
0°-60°	3056.8	85.8
0°-90°	3564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1557	1555	1554	1551	1556	148
15°	1500	1503	1503	1501	1507	423
25°	1382	1380	1379	1377	1380	635
35°	1172	1166	1169	1154	1164	731
45°	872	857	848	840	832	670
55°	556	545	518	505	498	497
65°	308	274	237	265	290	311
75°	174	145	128	158	182	183
85°	63	68	67	77	72	68
90°	0	0	0	0	0	



TEST NUMBER: P293859

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557.3	1557.3	1557.3	1557.3	1557.3
2.5°	1561.8	1556.2	1559.0	1557.3	1556.8
5°	1556.8	1554.6	1553.5	1551.2	1556.2
7.5°	1546.8	1545.1	1545.7	1546.2	1549.6
10°	1536.8	1534.0	1534.5	1535.7	1537.3
12.5°	1521.2	1519.5	1520.1	1521.2	1525.1
15°	1500.1	1502.9	1502.9	1501.2	1506.7
17.5°	1478.9	1478.4	1481.2	1476.2	1484.0
20°	1449.5	1450.0	1449.5	1450.0	1455.0
22.5°	1416.1	1418.9	1417.2	1417.2	1422.8
25°	1382.2	1380.5	1379.4	1376.6	1380.5
27.5°	1341.6	1338.3	1335.5	1329.9	1332.7
30°	1289.9	1290.5	1283.2	1278.2	1277.1
32.5°	1232.1	1232.1	1225.4	1221.5	1224.9
35°	1172.0	1166.5	1168.7	1154.2	1164.3
37.5°	1107.0	1098.1	1093.1	1088.1	1091.4
40°	1032.5	1020.8	1013.6	1003.6	1009.1
42.5°	954.1	939.6	930.7	923.5	925.7
45°	871.8	856.8	847.9	840.1	832.3
47.5°	785.1	775.6	771.2	761.2	752.3
50°	700.6	697.2	686.7	678.3	660.0
52.5°	623.3	620.5	603.8	589.9	566.6
55°	556.0	545.4	518.2	504.8	498.2
57.5°	487.6	470.4	437.6	435.9	440.3
60°	422.0	400.9	361.4	370.3	387.5
62.5°	362.5	330.8	293.0	314.1	334.7
65°	308.0	273.5	236.9	264.7	289.7
67.5°	263.0	228.5	190.7	228.0	256.9
70°	227.4	192.4	156.8	199.6	226.8
72.5°	197.9	166.2	136.8	177.4	205.7
75°	173.5	145.1	127.9	157.9	182.4
77.5°	149.0	126.2	122.3	140.7	155.7
80°	121.2	110.6	111.8	123.4	129.0
82.5°	90.6	91.2	94.0	103.4	101.2
85°	63.4	68.4	66.7	76.7	71.7
87.5°	35.0	38.4	36.1	43.9	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)