

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: P293862

Luminaire Tested: **24GR-LD5-38-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293862
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3659.0 lumens
Efficiency: N/A
Efficacy: 137.6 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

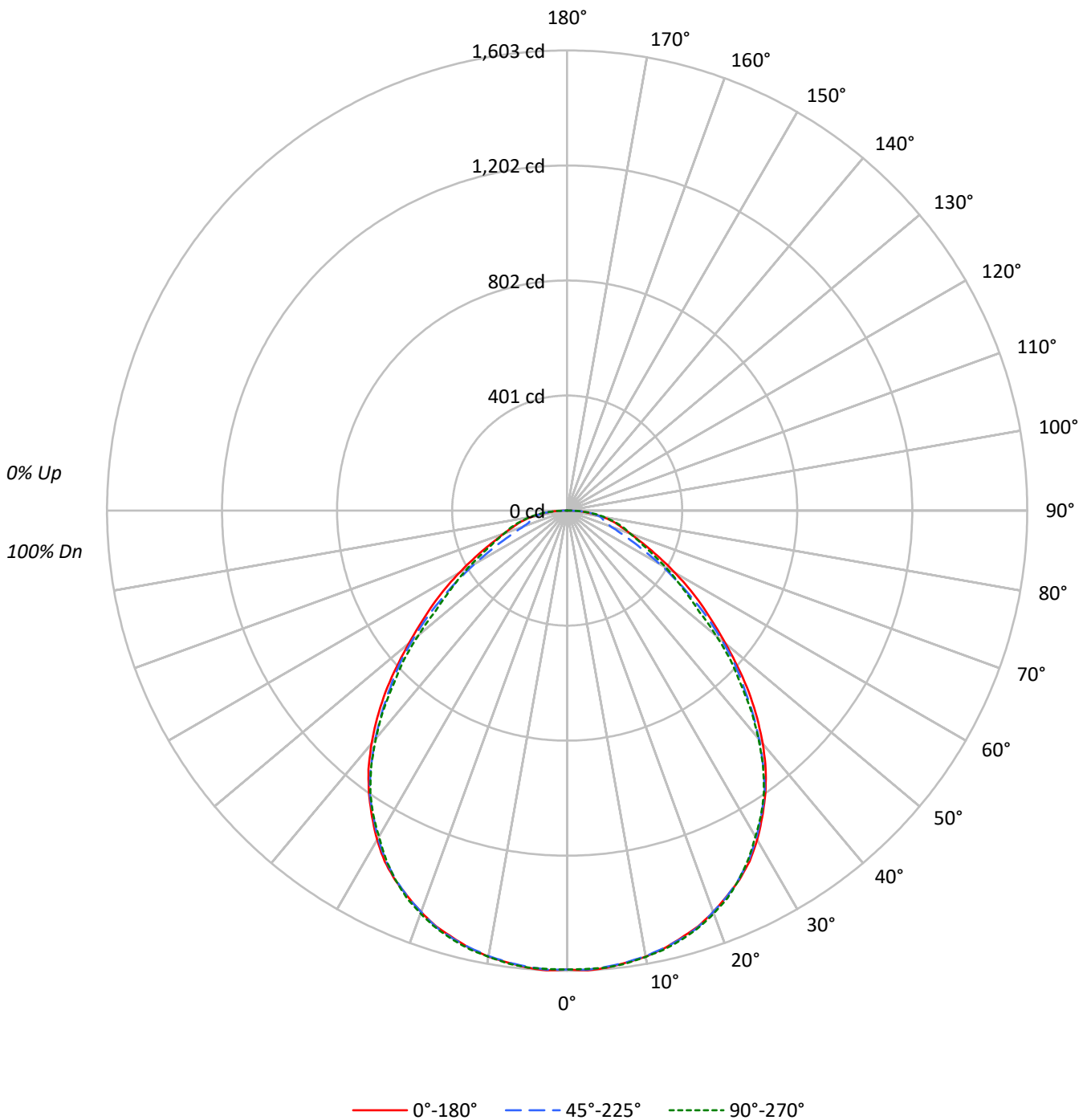
Input Watts (W): 26.598
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2151	2151	2151
5°	2159	2154	2158
10°	2156	2153	2156
15°	2145	2149	2155
20°	2131	2131	2139
25°	2107	2102	2104
30°	2057	2047	2037
35°	1976	1971	1963
40°	1862	1828	1820
45°	1703	1656	1626
50°	1505	1476	1418
55°	1339	1248	1200
60°	1166	998	1071
65°	1007	774	947
70°	919	633	916
75°	926	683	973
80°	964	889	1026
85°	1005	1057	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	4.1
10°-20°	435.0	11.9
20°-30°	651.1	17.8
30°-40°	744.0	20.3
40°-50°	672.6	18.4
50°-60°	483.9	13.2
60°-70°	280.5	7.7
70°-80°	166.4	4.5
80°-90°	73.7	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°	1237.7	33.8
0°-40°	1981.7	54.2
0°-60°	3138.3	85.8
0°-90°	3659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1598	1596	1595	1593	1598	152
15°	1540	1543	1543	1541	1547	435
25°	1419	1417	1416	1413	1417	652
35°	1203	1198	1200	1185	1195	750
45°	895	880	870	862	854	688
55°	571	560	532	518	512	511
65°	316	281	243	272	297	319
75°	178	149	131	162	187	188
85°	65	70	68	79	74	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.9	1598.9	1598.9	1598.9	1598.9
2.5°	1603.4	1597.7	1600.6	1598.9	1598.3
5°	1598.3	1596.0	1594.9	1592.6	1597.7
7.5°	1588.0	1586.3	1586.9	1587.4	1590.9
10°	1577.7	1574.9	1575.5	1576.6	1578.3
12.5°	1561.8	1560.0	1560.6	1561.8	1565.7
15°	1540.1	1542.9	1542.9	1541.2	1546.9
17.5°	1518.4	1517.8	1520.7	1515.5	1523.5
20°	1488.1	1488.7	1488.1	1488.7	1493.8
22.5°	1453.9	1456.7	1455.0	1455.0	1460.7
25°	1419.0	1417.3	1416.2	1413.3	1417.3
27.5°	1377.4	1374.0	1371.1	1365.4	1368.2
30°	1324.3	1324.9	1317.4	1312.3	1311.2
32.5°	1264.9	1264.9	1258.1	1254.1	1257.5
35°	1203.3	1197.6	1199.9	1185.0	1195.3
37.5°	1136.5	1127.4	1122.2	1117.1	1120.5
40°	1060.0	1048.0	1040.6	1030.3	1036.0
42.5°	979.5	964.7	955.5	948.1	950.4
45°	895.0	879.6	870.5	862.5	854.5
47.5°	806.0	796.3	791.7	781.4	772.3
50°	719.2	715.8	705.0	696.4	677.6
52.5°	639.9	637.0	619.9	605.6	581.7
55°	570.8	560.0	532.0	518.3	511.5
57.5°	500.6	482.9	449.2	447.5	452.1
60°	433.2	411.6	371.0	380.2	397.9
62.5°	372.2	339.6	300.8	322.5	343.6
65°	316.2	280.8	243.2	271.7	297.4
67.5°	270.0	234.6	195.8	234.0	263.7
70°	233.5	197.5	161.0	204.9	232.9
72.5°	203.2	170.7	140.4	182.1	211.2
75°	178.1	149.0	131.3	162.1	187.2
77.5°	153.0	129.6	125.6	144.4	159.8
80°	124.4	113.6	114.7	126.7	132.4
82.5°	93.0	93.6	96.5	106.2	103.9
85°	65.1	70.2	68.5	78.8	73.6
87.5°	36.0	39.4	37.1	45.1	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)