

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: P293734

Luminaire Tested: **24GR-LD5-38-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293734
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-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4009.0 lumens
Efficiency: N/A
Efficacy: 153.4 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

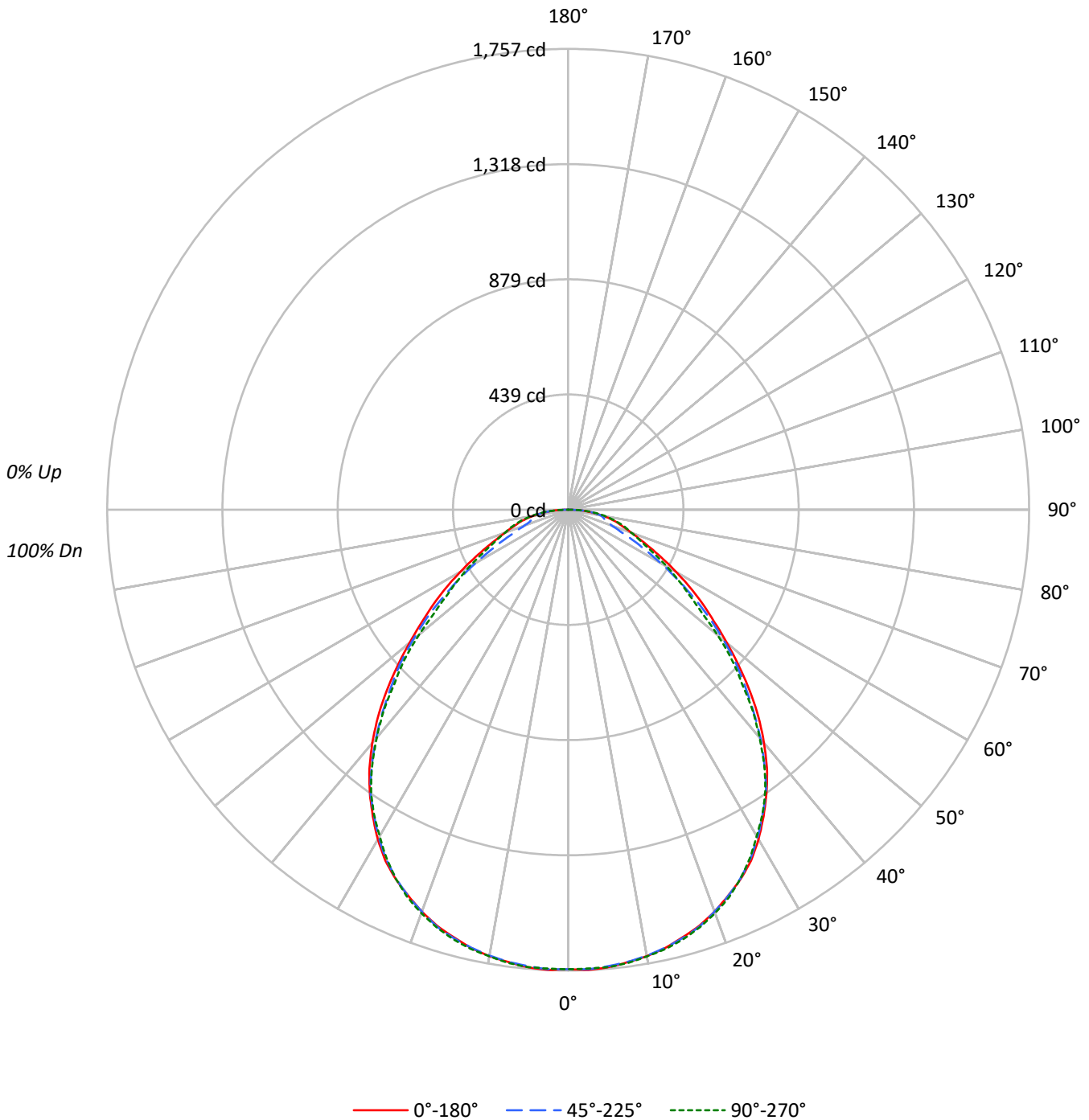
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2357	2357	2357
5°	2365	2360	2364
10°	2362	2358	2363
15°	2350	2355	2361
20°	2335	2335	2343
25°	2308	2304	2305
30°	2254	2243	2232
35°	2166	2159	2151
40°	2040	2002	1994
45°	1866	1815	1781
50°	1649	1617	1554
55°	1467	1367	1315
60°	1277	1094	1173
65°	1103	848	1037
70°	1006	694	1004
75°	1014	748	1066
80°	1056	974	1124
85°	1101	1159	1246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	4.1
10°-20°	476.6	11.9
20°-30°	713.4	17.8
30°-40°	815.2	20.3
40°-50°	737.0	18.4
50°-60°	530.2	13.2
60°-70°	307.4	7.7
70°-80°	182.3	4.5
80°-90°	80.8	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°	1356.1	33.8
0°-40°	2171.3	54.2
0°-60°	3438.5	85.8
0°-90°	4009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1751	1749	1747	1745	1750	166
15°	1687	1690	1690	1689	1695	476
25°	1555	1553	1552	1548	1553	715
35°	1318	1312	1315	1298	1310	822
45°	981	964	954	945	936	753
55°	625	614	583	568	560	559
65°	346	308	266	298	326	350
75°	195	163	144	178	205	206
85°	71	77	75	86	81	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1751.8	1751.8	1751.8	1751.8	1751.8
2.5°	1756.8	1750.5	1753.7	1751.8	1751.2
5°	1751.2	1748.7	1747.4	1744.9	1750.5
7.5°	1739.9	1738.0	1738.7	1739.3	1743.0
10°	1728.7	1725.5	1726.2	1727.4	1729.3
12.5°	1711.1	1709.3	1709.9	1711.1	1715.5
15°	1687.4	1690.5	1690.5	1688.6	1694.9
17.5°	1663.6	1663.0	1666.1	1660.5	1669.2
20°	1630.5	1631.1	1630.5	1631.1	1636.7
22.5°	1592.9	1596.1	1594.2	1594.2	1600.4
25°	1554.8	1552.9	1551.7	1548.5	1552.9
27.5°	1509.1	1505.4	1502.3	1496.0	1499.1
30°	1451.0	1451.6	1443.5	1437.8	1436.6
32.5°	1385.9	1385.9	1378.4	1374.0	1377.8
35°	1318.4	1312.1	1314.6	1298.4	1309.6
37.5°	1245.2	1235.2	1229.6	1223.9	1227.7
40°	1161.4	1148.3	1140.1	1128.9	1135.1
42.5°	1073.2	1057.0	1046.9	1038.8	1041.3
45°	980.7	963.8	953.8	945.0	936.2
47.5°	883.1	872.5	867.5	856.2	846.2
50°	788.0	784.3	772.4	763.0	742.4
52.5°	701.1	698.0	679.2	663.6	637.3
55°	625.4	613.5	582.9	567.9	560.4
57.5°	548.5	529.1	492.2	490.3	495.3
60°	474.7	450.9	406.5	416.5	435.9
62.5°	407.8	372.1	329.6	353.4	376.5
65°	346.5	307.7	266.4	297.7	325.8
67.5°	295.8	257.0	214.5	256.4	288.9
70°	255.8	216.4	176.4	224.5	255.2
72.5°	222.6	187.0	153.9	199.5	231.4
75°	195.1	163.2	143.8	177.6	205.1
77.5°	167.6	142.0	137.6	158.2	175.1
80°	136.3	124.5	125.7	138.8	145.1
82.5°	101.9	102.6	105.7	116.3	113.8
85°	71.3	76.9	75.1	86.3	80.7
87.5°	39.4	43.2	40.7	49.4	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)