

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: P293677

Luminaire Tested: **24GR-LD5-38-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293677
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-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4048.0 lumens
Efficiency: N/A
Efficacy: 156.0 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

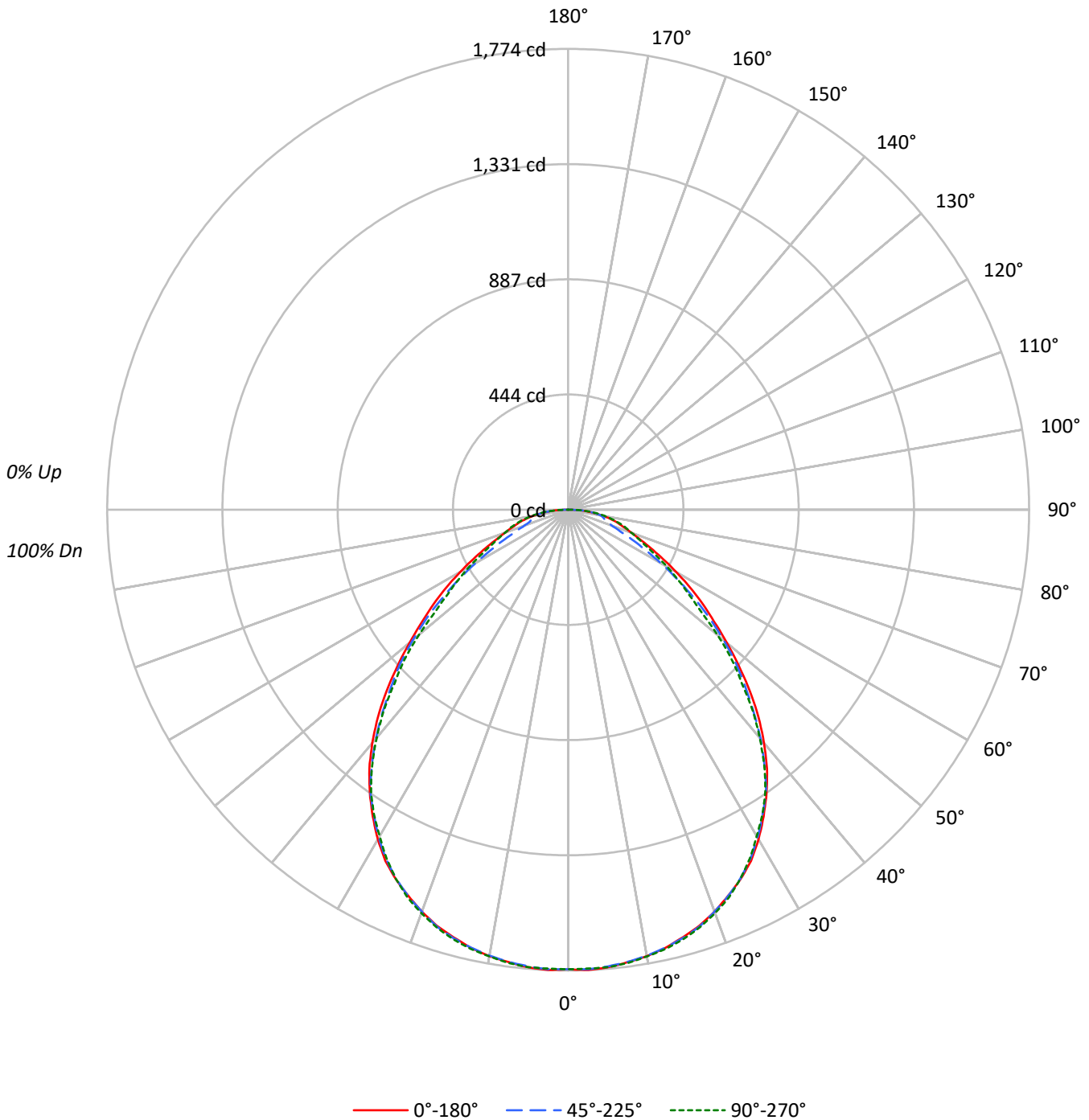
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2380	2380	2380
5°	2388	2383	2387
10°	2385	2381	2386
15°	2373	2378	2384
20°	2357	2357	2366
25°	2331	2326	2328
30°	2276	2264	2254
35°	2187	2180	2172
40°	2060	2022	2013
45°	1884	1832	1799
50°	1666	1632	1569
55°	1481	1381	1327
60°	1290	1105	1185
65°	1114	856	1047
70°	1016	701	1014
75°	1024	755	1077
80°	1067	983	1135
85°	1112	1170	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	4.1
10°-20°	481.2	11.9
20°-30°	720.3	17.8
30°-40°	823.1	20.3
40°-50°	744.1	18.4
50°-60°	535.4	13.2
60°-70°	310.4	7.7
70°-80°	184.1	4.5
80°-90°	81.5	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°	1369.3	33.8
0°-40°	2192.4	54.2
0°-60°	3472.0	85.8
0°-90°	4048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1768	1766	1764	1762	1768	168
15°	1704	1707	1707	1705	1711	481
25°	1570	1568	1567	1564	1568	722
35°	1331	1325	1327	1311	1322	830
45°	990	973	963	954	945	761
55°	632	620	589	573	566	565
65°	350	311	269	301	329	353
75°	197	165	145	179	207	208
85°	72	78	76	87	82	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1768.8	1768.8	1768.8	1768.8	1768.8
2.5°	1773.9	1767.6	1770.7	1768.8	1768.2
5°	1768.2	1765.7	1764.4	1761.9	1767.6
7.5°	1756.8	1754.9	1755.6	1756.2	1760.0
10°	1745.5	1742.3	1742.9	1744.2	1746.1
12.5°	1727.8	1725.9	1726.5	1727.8	1732.2
15°	1703.8	1706.9	1706.9	1705.1	1711.4
17.5°	1679.8	1679.2	1682.3	1676.6	1685.5
20°	1646.3	1647.0	1646.3	1647.0	1652.6
22.5°	1608.4	1611.6	1609.7	1609.7	1616.0
25°	1569.9	1568.0	1566.8	1563.6	1568.0
27.5°	1523.8	1520.0	1516.9	1510.6	1513.7
30°	1465.1	1465.7	1457.5	1451.8	1450.6
32.5°	1399.4	1399.4	1391.8	1387.4	1391.2
35°	1331.2	1324.9	1327.4	1311.0	1322.4
37.5°	1257.3	1247.2	1241.5	1235.8	1239.6
40°	1172.7	1159.4	1151.2	1139.9	1146.2
42.5°	1083.7	1067.2	1057.1	1048.9	1051.4
45°	990.2	973.1	963.0	954.2	945.4
47.5°	891.7	880.9	875.9	864.5	854.4
50°	795.7	791.9	779.9	770.4	749.6
52.5°	707.9	704.8	685.8	670.0	643.5
55°	631.5	619.5	588.6	573.4	565.8
57.5°	553.8	534.3	497.0	495.1	500.1
60°	479.3	455.3	410.5	420.6	440.2
62.5°	411.7	375.7	332.8	356.8	380.2
65°	349.9	310.7	269.0	300.6	329.0
67.5°	298.7	259.5	216.6	258.9	291.8
70°	258.3	218.5	178.1	226.7	257.7
72.5°	224.8	188.8	155.3	201.4	233.7
75°	197.0	164.8	145.2	179.3	207.1
77.5°	169.2	143.4	138.9	159.8	176.8
80°	137.7	125.7	126.9	140.2	146.5
82.5°	102.9	103.6	106.7	117.5	114.9
85°	72.0	77.7	75.8	87.1	81.5
87.5°	39.8	43.6	41.0	49.9	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)