

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: P293735

Luminaire Tested: **24GR-LD5-38-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293735
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4019.0 lumens
Efficiency: N/A
Efficacy: 153.8 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

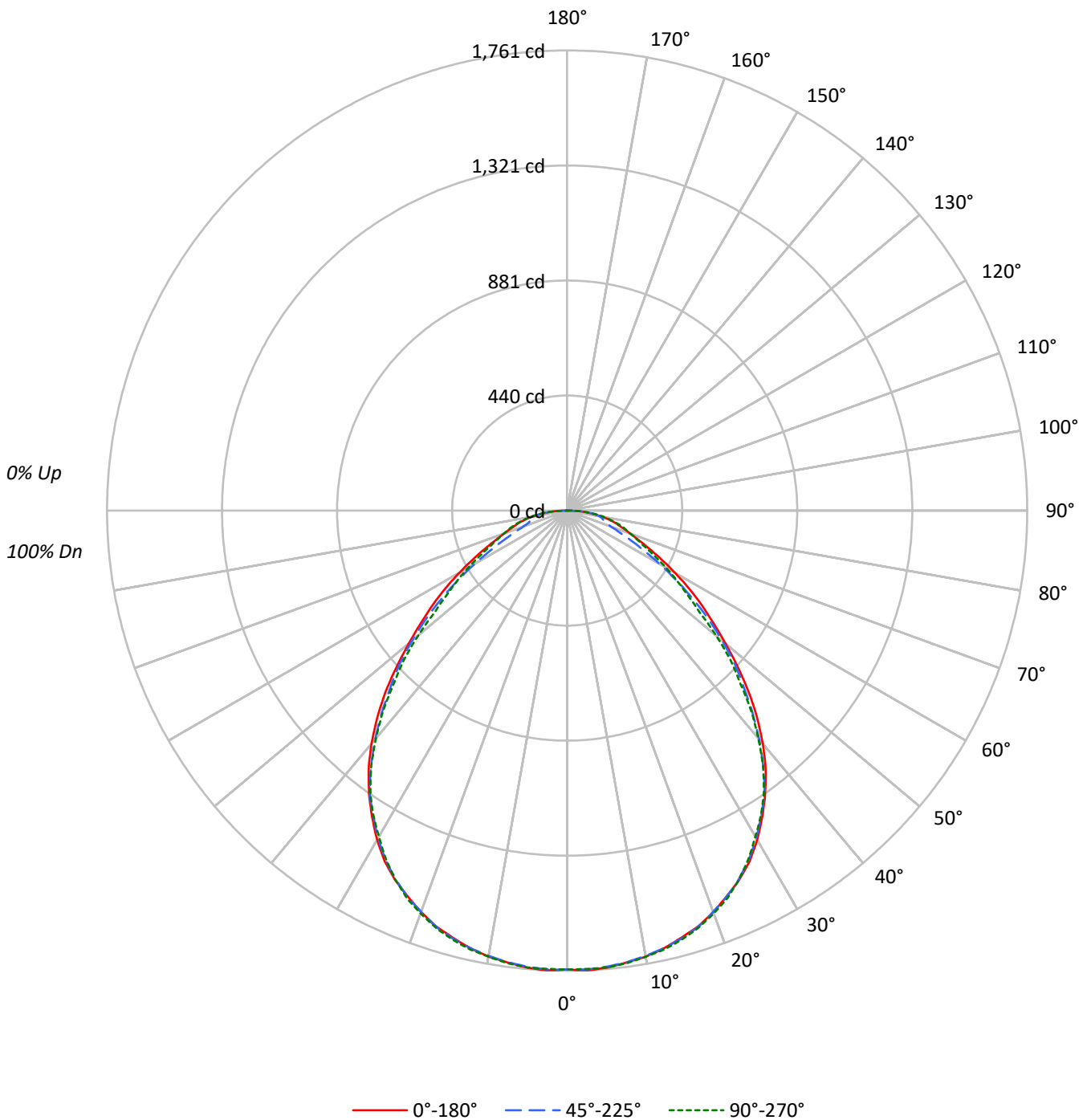
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2363	2363	2363
5°	2371	2366	2370
10°	2368	2364	2369
15°	2356	2361	2367
20°	2340	2340	2349
25°	2314	2309	2311
30°	2260	2248	2238
35°	2171	2165	2156
40°	2045	2008	1999
45°	1871	1819	1786
50°	1654	1621	1558
55°	1471	1371	1318
60°	1281	1097	1176
65°	1106	850	1040
70°	1009	696	1006
75°	1017	750	1069
80°	1059	976	1127
85°	1104	1161	1249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	4.1
10°-20°	477.8	11.9
20°-30°	715.2	17.8
30°-40°	817.2	20.3
40°-50°	738.8	18.4
50°-60°	531.5	13.2
60°-70°	308.2	7.7
70°-80°	182.8	4.5
80°-90°	81.0	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°	1359.5	33.8
0°-40°	2176.7	54.2
0°-60°	3447.1	85.8
0°-90°	4019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1756	1753	1752	1749	1755	167
15°	1692	1695	1695	1693	1699	478
25°	1559	1557	1556	1552	1557	717
35°	1322	1315	1318	1302	1313	824
45°	983	966	956	947	939	755
55°	627	615	584	569	562	561
65°	347	308	267	298	327	351
75°	196	164	144	178	206	207
85°	72	77	75	86	81	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1756.2	1756.2	1756.2	1756.2	1756.2
2.5°	1761.2	1754.9	1758.0	1756.2	1755.5
5°	1755.5	1753.0	1751.8	1749.3	1754.9
7.5°	1744.3	1742.4	1743.0	1743.6	1747.4
10°	1733.0	1729.8	1730.5	1731.7	1733.6
12.5°	1715.4	1713.5	1714.2	1715.4	1719.8
15°	1691.6	1694.7	1694.7	1692.8	1699.1
17.5°	1667.8	1667.1	1670.3	1664.6	1673.4
20°	1634.5	1635.2	1634.5	1635.2	1640.8
22.5°	1596.9	1600.0	1598.2	1598.2	1604.4
25°	1558.7	1556.8	1555.5	1552.4	1556.8
27.5°	1512.9	1509.1	1506.0	1499.7	1502.9
30°	1454.6	1455.2	1447.1	1441.4	1440.2
32.5°	1389.4	1389.4	1381.9	1377.5	1381.2
35°	1321.7	1315.4	1317.9	1301.6	1312.9
37.5°	1248.3	1238.3	1232.6	1227.0	1230.8
40°	1164.3	1151.1	1143.0	1131.7	1138.0
42.5°	1075.9	1059.6	1049.6	1041.4	1043.9
45°	983.1	966.2	956.1	947.4	938.6
47.5°	885.3	874.6	869.6	858.3	848.3
50°	790.0	786.2	774.3	764.9	744.2
52.5°	702.8	699.7	680.9	665.2	638.9
55°	627.0	615.1	584.3	569.3	561.8
57.5°	549.9	530.4	493.4	491.6	496.6
60°	475.9	452.1	407.5	417.6	437.0
62.5°	408.8	373.1	330.4	354.2	377.4
65°	347.3	308.5	267.1	298.4	326.7
67.5°	296.6	257.7	215.1	257.1	289.7
70°	256.4	216.9	176.8	225.1	255.8
72.5°	223.2	187.5	154.2	200.0	232.0
75°	195.6	163.6	144.2	178.1	205.6
77.5°	168.0	142.3	137.9	158.6	175.6
80°	136.7	124.8	126.0	139.2	145.5
82.5°	102.2	102.8	106.0	116.6	114.1
85°	71.5	77.1	75.2	86.5	80.9
87.5°	39.5	43.3	40.8	49.5	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)