

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: P293733

Luminaire Tested: **24GR-LD5-38-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293733
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3970.0 lumens
Efficiency: N/A
Efficacy: 153.0 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

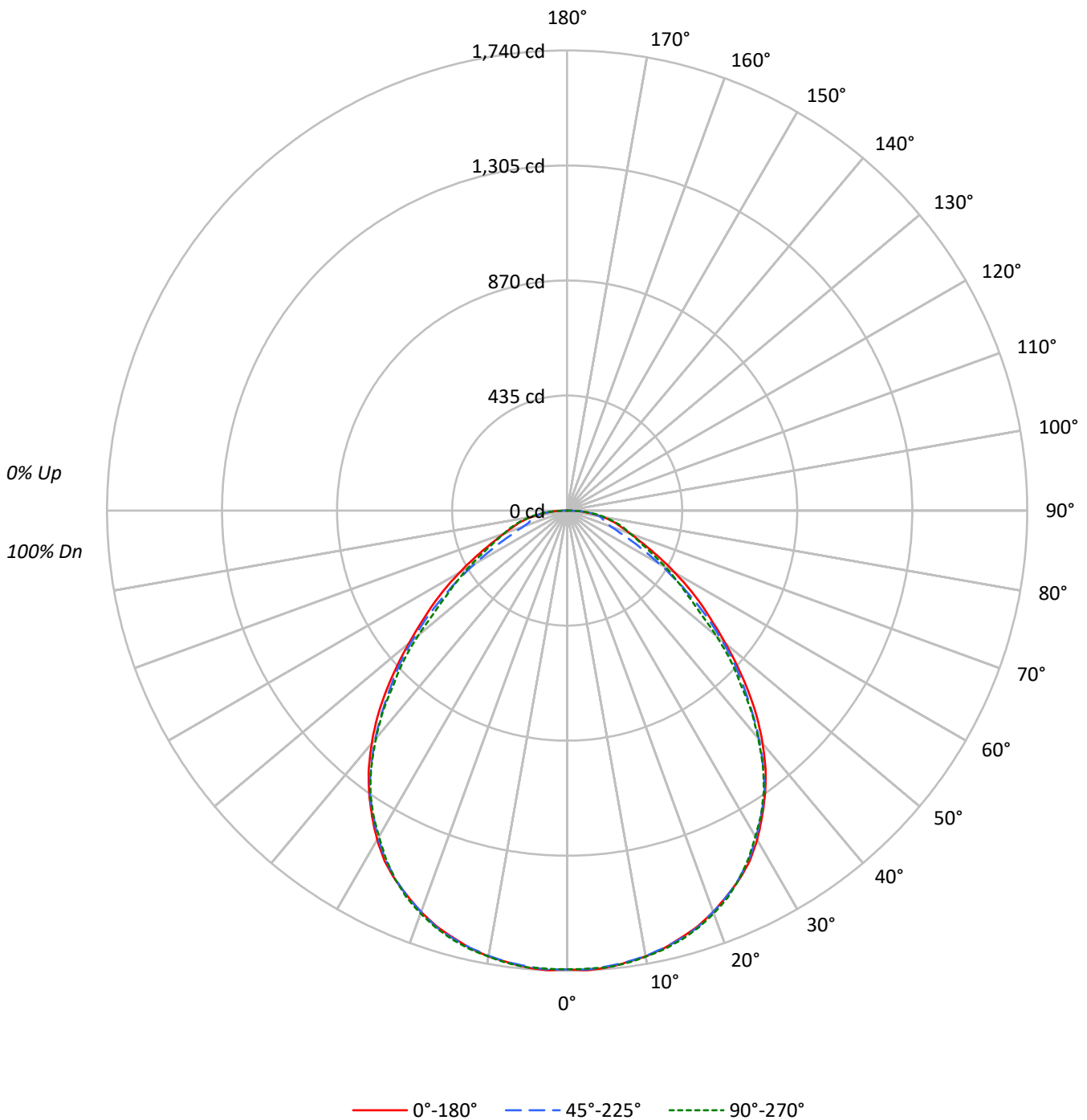
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2334	2334	2334
5°	2342	2337	2341
10°	2339	2335	2340
15°	2328	2332	2338
20°	2312	2312	2321
25°	2286	2281	2283
30°	2232	2221	2210
35°	2144	2138	2130
40°	2020	1983	1974
45°	1848	1797	1764
50°	1634	1601	1539
55°	1453	1354	1302
60°	1265	1083	1162
65°	1092	840	1027
70°	996	687	994
75°	1004	740	1056
80°	1046	965	1113
85°	1090	1147	1233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	4.1
10°-20°	471.9	11.9
20°-30°	706.4	17.8
30°-40°	807.2	20.3
40°-50°	729.8	18.4
50°-60°	525.1	13.2
60°-70°	304.4	7.7
70°-80°	180.6	4.5
80°-90°	80.0	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°	1342.9	33.8
0°-40°	2150.2	54.2
0°-60°	3405.1	85.8
0°-90°	3970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3970.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1734	1732	1730	1728	1734	165
15°	1671	1674	1674	1672	1678	472
25°	1540	1538	1537	1534	1538	708
35°	1306	1299	1302	1286	1297	814
45°	971	954	944	936	927	746
55°	619	608	577	562	555	554
65°	343	305	264	295	323	346
75°	193	162	142	176	203	204
85°	71	76	74	86	80	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.8	1734.8	1734.8	1734.8	1734.8
2.5°	1739.7	1733.5	1736.6	1734.8	1734.1
5°	1734.1	1731.7	1730.4	1727.9	1733.5
7.5°	1723.0	1721.1	1721.7	1722.4	1726.1
10°	1711.8	1708.7	1709.4	1710.6	1712.5
12.5°	1694.5	1692.6	1693.3	1694.5	1698.8
15°	1671.0	1674.1	1674.1	1672.2	1678.4
17.5°	1647.4	1646.8	1649.9	1644.3	1653.0
20°	1614.6	1615.2	1614.6	1615.2	1620.8
22.5°	1577.4	1580.5	1578.7	1578.7	1584.9
25°	1539.7	1537.8	1536.6	1533.5	1537.8
27.5°	1494.5	1490.7	1487.6	1481.4	1484.5
30°	1436.9	1437.5	1429.4	1423.8	1422.6
32.5°	1372.4	1372.4	1365.0	1360.7	1364.4
35°	1305.6	1299.4	1301.8	1285.7	1296.9
37.5°	1233.1	1223.2	1217.6	1212.0	1215.8
40°	1150.1	1137.1	1129.0	1117.9	1124.1
42.5°	1062.8	1046.7	1036.8	1028.7	1031.2
45°	971.1	954.4	944.5	935.8	927.1
47.5°	874.5	864.0	859.0	847.9	838.0
50°	780.4	776.6	764.9	755.6	735.1
52.5°	694.3	691.2	672.6	657.1	631.1
55°	619.3	607.6	577.2	562.4	554.9
57.5°	543.2	524.0	487.4	485.6	490.5
60°	470.1	446.5	402.6	412.5	431.7
62.5°	403.8	368.5	326.4	349.9	372.8
65°	343.1	304.7	263.8	294.8	322.7
67.5°	292.9	254.5	212.4	253.9	286.1
70°	253.3	214.3	174.7	222.3	252.7
72.5°	220.5	185.2	152.4	197.6	229.2
75°	193.2	161.6	142.4	175.9	203.1
77.5°	166.0	140.6	136.3	156.7	173.4
80°	135.0	123.2	124.5	137.5	143.7
82.5°	101.0	101.6	104.7	115.2	112.7
85°	70.6	76.2	74.3	85.5	79.9
87.5°	39.0	42.7	40.3	48.9	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)