

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: P293101

Luminaire Tested: **24GR-LD5-38-F1-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-F1-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3399.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

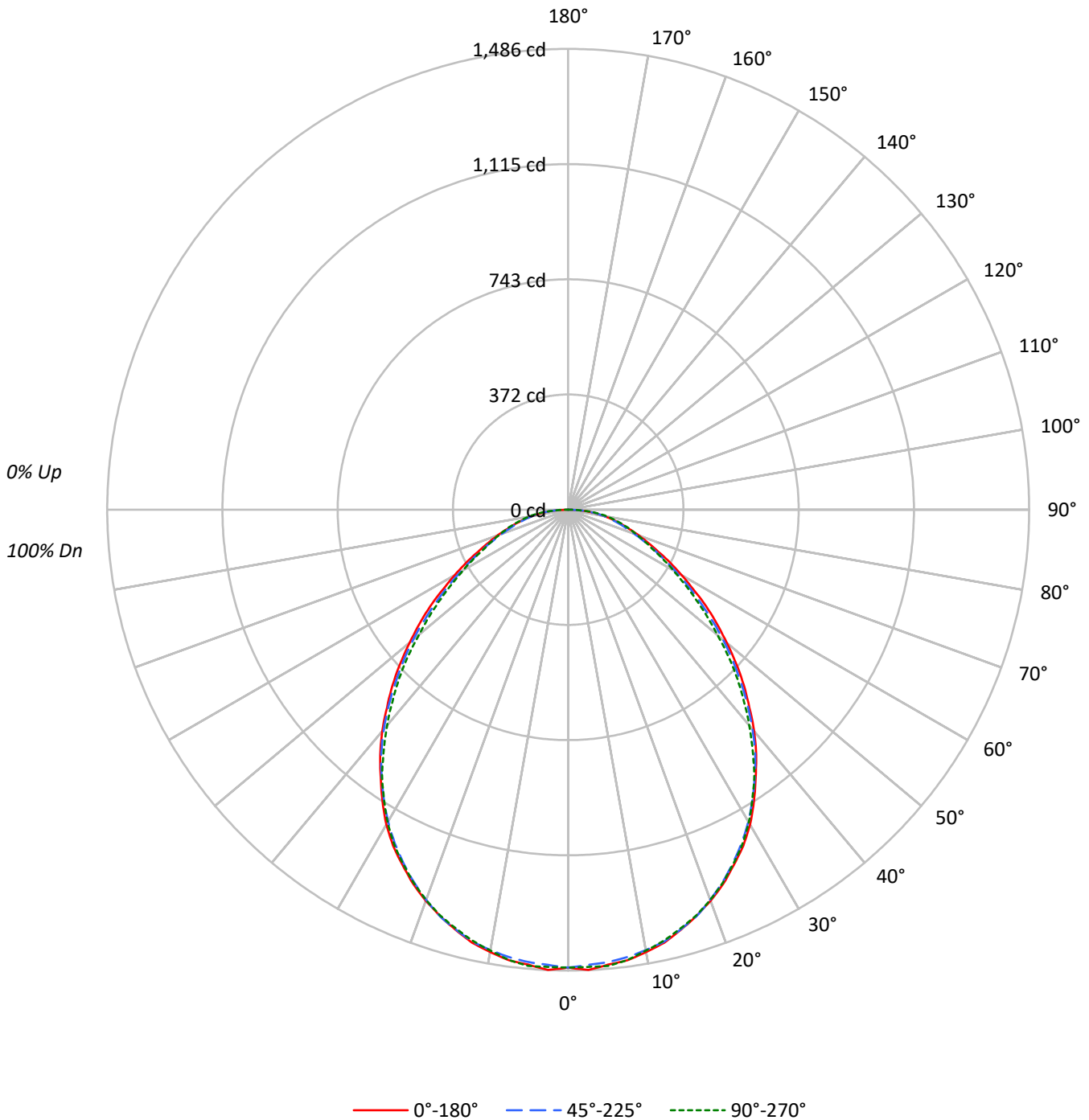
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1986	1986	1986
5°	1989	1978	1995
10°	1979	1970	1972
15°	1954	1952	1947
20°	1921	1917	1917
25°	1877	1866	1870
30°	1822	1804	1809
35°	1731	1723	1718
40°	1639	1624	1596
45°	1523	1497	1467
50°	1396	1365	1313
55°	1274	1217	1176
60°	1136	1081	1053
65°	1022	969	955
70°	949	891	927
75°	908	868	940
80°	907	907	1005
85°	942	953	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	4.1
10°-20°	394.6	11.6
20°-30°	579.1	17.0
30°-40°	654.7	19.3
40°-50°	605.1	17.8
50°-60°	466.2	13.7
60°-70°	308.7	9.1
70°-80°	183.8	5.4
80°-90°	67.3	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°	1113.1	32.7
0°-40°	1767.9	52.0
0°-60°	2839.2	83.5
0°-90°	3399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1473	1473	1464	1465	1477	140
15°	1403	1400	1401	1401	1398	395
25°	1264	1260	1257	1256	1260	582
35°	1054	1052	1049	1044	1046	659
45°	801	795	787	773	771	617
55°	543	532	519	505	501	485
65°	321	316	304	302	300	322
75°	175	170	167	175	181	186
85°	61	58	62	68	69	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1476.4	1476.4	1476.4	1476.4	1476.4
2.5°	1485.6	1477.8	1469.4	1469.4	1475.7
5°	1472.9	1472.9	1464.5	1465.2	1477.1
7.5°	1465.2	1461.0	1455.4	1455.4	1464.5
10°	1448.4	1444.9	1442.1	1440.7	1443.5
12.5°	1430.2	1424.6	1426.7	1424.6	1423.9
15°	1402.8	1400.0	1401.4	1400.7	1397.9
17.5°	1373.4	1372.0	1374.8	1369.9	1372.0
20°	1341.8	1337.6	1339.0	1336.2	1339.0
22.5°	1306.1	1303.3	1299.8	1296.3	1301.9
25°	1264.0	1260.5	1257.0	1255.6	1259.8
27.5°	1222.0	1216.3	1211.4	1210.0	1216.3
30°	1172.9	1166.6	1161.0	1159.6	1164.5
32.5°	1114.7	1113.3	1106.3	1103.5	1105.6
35°	1053.7	1052.3	1048.8	1043.9	1046.0
37.5°	995.5	994.8	989.9	981.5	975.9
40°	933.1	928.2	924.7	912.8	908.6
42.5°	864.4	863.0	856.7	843.4	838.5
45°	800.6	795.0	786.6	772.6	771.2
47.5°	734.7	727.0	719.3	701.8	701.1
50°	666.7	661.1	652.0	634.5	627.5
52.5°	603.6	595.9	583.3	566.5	563.0
55°	543.3	532.1	518.8	504.8	501.3
57.5°	478.8	473.9	457.8	446.6	442.4
60°	422.0	417.8	401.7	391.2	391.2
62.5°	370.9	364.6	350.5	343.5	343.5
65°	321.1	316.2	304.3	301.5	300.1
67.5°	278.3	272.0	263.6	262.9	266.4
70°	241.2	233.5	226.4	233.5	235.6
72.5°	206.1	201.2	194.9	204.0	208.2
75°	174.6	170.4	166.9	174.6	180.9
77.5°	145.8	141.6	141.6	150.0	155.6
80°	117.1	114.3	117.1	124.1	129.7
82.5°	89.7	87.6	91.1	98.1	101.7
85°	61.0	57.5	61.7	68.0	68.7
87.5°	28.7	28.0	30.8	35.1	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)