

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: P294245

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-FGW080-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3713.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

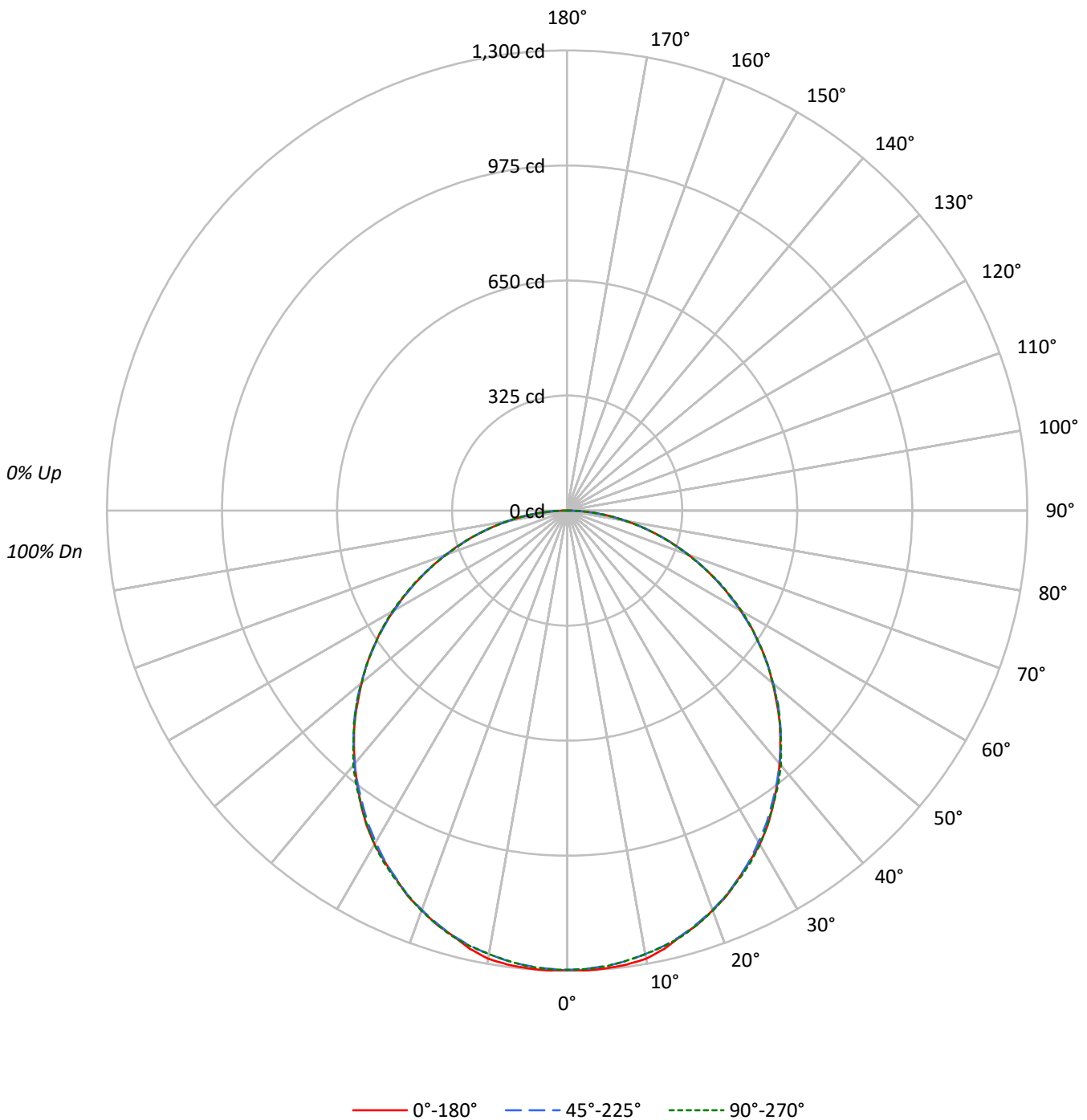
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1746	1746	1746
5°	1753	1743	1744
10°	1756	1738	1738
15°	1733	1732	1736
20°	1720	1719	1723
25°	1702	1700	1706
30°	1691	1680	1692
35°	1667	1658	1667
40°	1640	1641	1650
45°	1616	1621	1618
50°	1586	1591	1587
55°	1561	1557	1561
60°	1525	1520	1534
65°	1478	1483	1489
70°	1430	1437	1426
75°	1379	1379	1379
80°	1303	1303	1316
85°	1203	1216	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	3.3
10°-20°	350.8	9.4
20°-30°	528.6	14.2
30°-40°	633.1	17.1
40°-50°	655.4	17.7
50°-60°	594.3	16.0
60°-70°	460.7	12.4
70°-80°	280.2	7.5
80°-90°	87.2	2.3
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°	1002.1	27.0
0°-40°	1635.3	44.0
0°-60°	2884.9	77.7
0°-90°	3713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1298	1290	1291	1289	1292	123
15°	1244	1245	1243	1239	1246	352
25°	1146	1146	1145	1149	1149	529
35°	1015	1008	1010	1014	1015	635
45°	849	851	852	848	850	654
55°	666	662	664	666	666	595
65°	464	467	466	464	468	460
75°	265	264	265	264	265	280
85°	78	77	79	78	76	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.7	1297.7	1297.7	1297.7	1297.7
2.5°	1300.4	1295.1	1295.1	1293.4	1296.0
5°	1297.7	1289.9	1290.7	1289.0	1291.6
7.5°	1293.4	1282.8	1283.7	1282.0	1282.8
10°	1285.5	1273.2	1272.3	1271.5	1272.3
12.5°	1268.0	1261.0	1260.1	1258.3	1261.0
15°	1244.3	1245.2	1243.4	1239.1	1246.1
17.5°	1225.9	1225.1	1223.3	1218.9	1225.9
20°	1201.4	1202.3	1200.5	1198.8	1203.2
22.5°	1177.8	1175.1	1176.0	1175.1	1176.0
25°	1146.2	1146.2	1145.4	1148.9	1148.9
27.5°	1117.3	1113.8	1115.6	1119.1	1120.9
30°	1088.5	1079.7	1081.4	1084.9	1089.3
32.5°	1054.3	1045.5	1047.3	1050.8	1052.5
35°	1014.9	1007.9	1009.6	1014.0	1014.9
37.5°	974.6	970.2	972.0	975.5	978.1
40°	933.5	931.7	934.3	933.5	939.6
42.5°	891.4	890.6	893.2	893.2	894.1
45°	849.4	851.1	852.0	848.5	850.3
47.5°	803.0	803.9	807.4	805.6	806.5
50°	757.5	756.6	760.1	761.0	758.3
52.5°	713.7	709.3	712.8	714.5	712.8
55°	665.5	662.0	663.8	666.4	665.5
57.5°	618.2	614.7	615.6	620.0	618.2
60°	566.6	565.7	564.8	568.3	570.1
62.5°	515.8	514.9	513.1	516.6	518.4
65°	464.1	466.7	465.9	464.1	467.6
67.5°	415.1	417.7	415.1	413.3	413.3
70°	363.4	366.0	365.2	363.4	362.5
72.5°	315.2	315.2	313.5	312.6	313.5
75°	265.3	264.5	265.3	264.5	265.3
77.5°	216.3	217.2	217.2	217.2	216.3
80°	168.1	168.1	168.1	169.0	169.9
82.5°	123.5	120.8	123.5	121.7	122.6
85°	77.9	77.1	78.8	77.9	76.2
87.5°	35.0	35.9	35.9	36.8	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)