

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: P294244

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294244
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3649.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

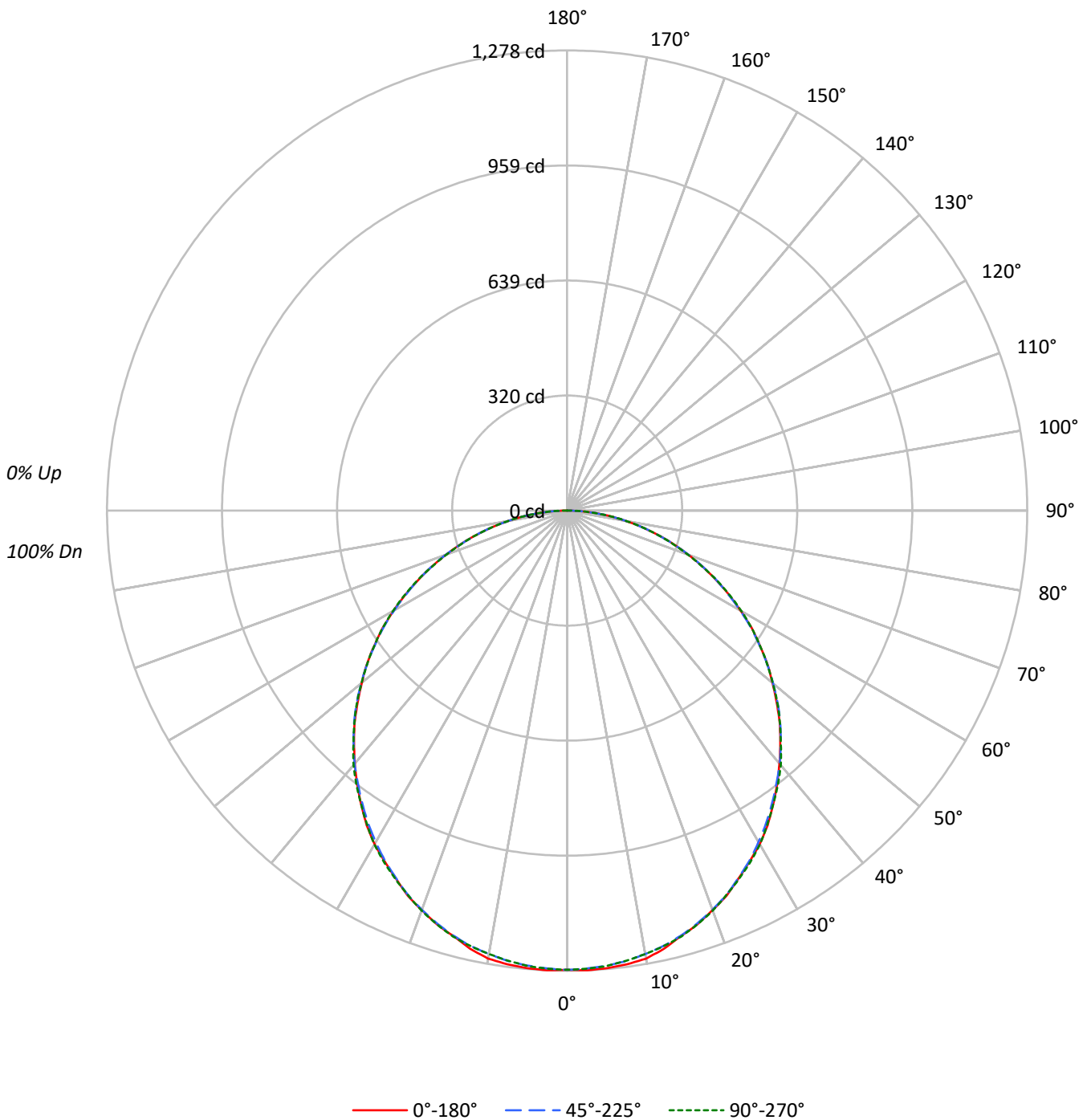
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1716	1716	1716
5°	1723	1713	1714
10°	1726	1708	1708
15°	1703	1702	1706
20°	1691	1689	1693
25°	1672	1671	1676
30°	1662	1651	1663
35°	1638	1630	1638
40°	1611	1613	1622
45°	1588	1593	1590
50°	1558	1564	1560
55°	1534	1530	1534
60°	1498	1494	1507
65°	1452	1457	1463
70°	1405	1412	1402
75°	1356	1356	1356
80°	1280	1280	1294
85°	1183	1196	1156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	3.3
10°-20°	344.7	9.4
20°-30°	519.5	14.2
30°-40°	622.2	17.1
40°-50°	644.1	17.7
50°-60°	584.0	16.0
60°-70°	452.8	12.4
70°-80°	275.4	7.5
80°-90°	85.7	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°	984.8	27.0
0°-40°	1607.1	44.0
0°-60°	2835.2	77.7
0°-90°	3649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1275	1268	1268	1267	1269	121
15°	1223	1224	1222	1218	1225	346
25°	1126	1126	1126	1129	1129	520
35°	997	990	992	996	997	624
45°	835	836	837	834	836	643
55°	654	651	652	655	654	585
65°	456	459	458	456	460	452
75°	261	260	261	260	261	275
85°	77	76	78	77	75	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1275.4	1275.4	1275.4	1275.4	1275.4
2.5°	1277.9	1272.8	1272.8	1271.1	1273.6
5°	1275.4	1267.6	1268.5	1266.8	1269.3
7.5°	1271.1	1260.7	1261.6	1259.9	1260.7
10°	1263.3	1251.3	1250.4	1249.6	1250.4
12.5°	1246.1	1239.2	1238.4	1236.6	1239.2
15°	1222.9	1223.7	1222.0	1217.7	1224.6
17.5°	1204.8	1203.9	1202.2	1197.9	1204.8
20°	1180.7	1181.6	1179.8	1178.1	1182.4
22.5°	1157.5	1154.9	1155.7	1154.9	1155.7
25°	1126.5	1126.5	1125.6	1129.1	1129.1
27.5°	1098.1	1094.6	1096.4	1099.8	1101.5
30°	1069.7	1061.1	1062.8	1066.2	1070.6
32.5°	1036.1	1027.5	1029.2	1032.7	1034.4
35°	997.4	990.5	992.2	996.5	997.4
37.5°	957.8	953.5	955.2	958.7	961.3
40°	917.4	915.6	918.2	917.4	923.4
42.5°	876.1	875.2	877.8	877.8	878.6
45°	834.8	836.5	837.3	833.9	835.6
47.5°	789.1	790.0	793.4	791.7	792.6
50°	744.4	743.5	747.0	747.8	745.3
52.5°	701.4	697.1	700.5	702.2	700.5
55°	654.0	650.6	652.3	654.9	654.0
57.5°	607.6	604.1	605.0	609.3	607.6
60°	556.8	555.9	555.1	558.5	560.2
62.5°	506.9	506.0	504.3	507.7	509.5
65°	456.1	458.7	457.8	456.1	459.5
67.5°	407.9	410.5	407.9	406.2	406.2
70°	357.1	359.7	358.9	357.1	356.3
72.5°	309.8	309.8	308.1	307.2	308.1
75°	260.8	259.9	260.8	259.9	260.8
77.5°	212.6	213.4	213.4	213.4	212.6
80°	165.2	165.2	165.2	166.1	167.0
82.5°	121.3	118.8	121.3	119.6	120.5
85°	76.6	75.7	77.5	76.6	74.9
87.5°	34.4	35.3	35.3	36.1	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)