

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: P294185

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294185
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-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3655.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

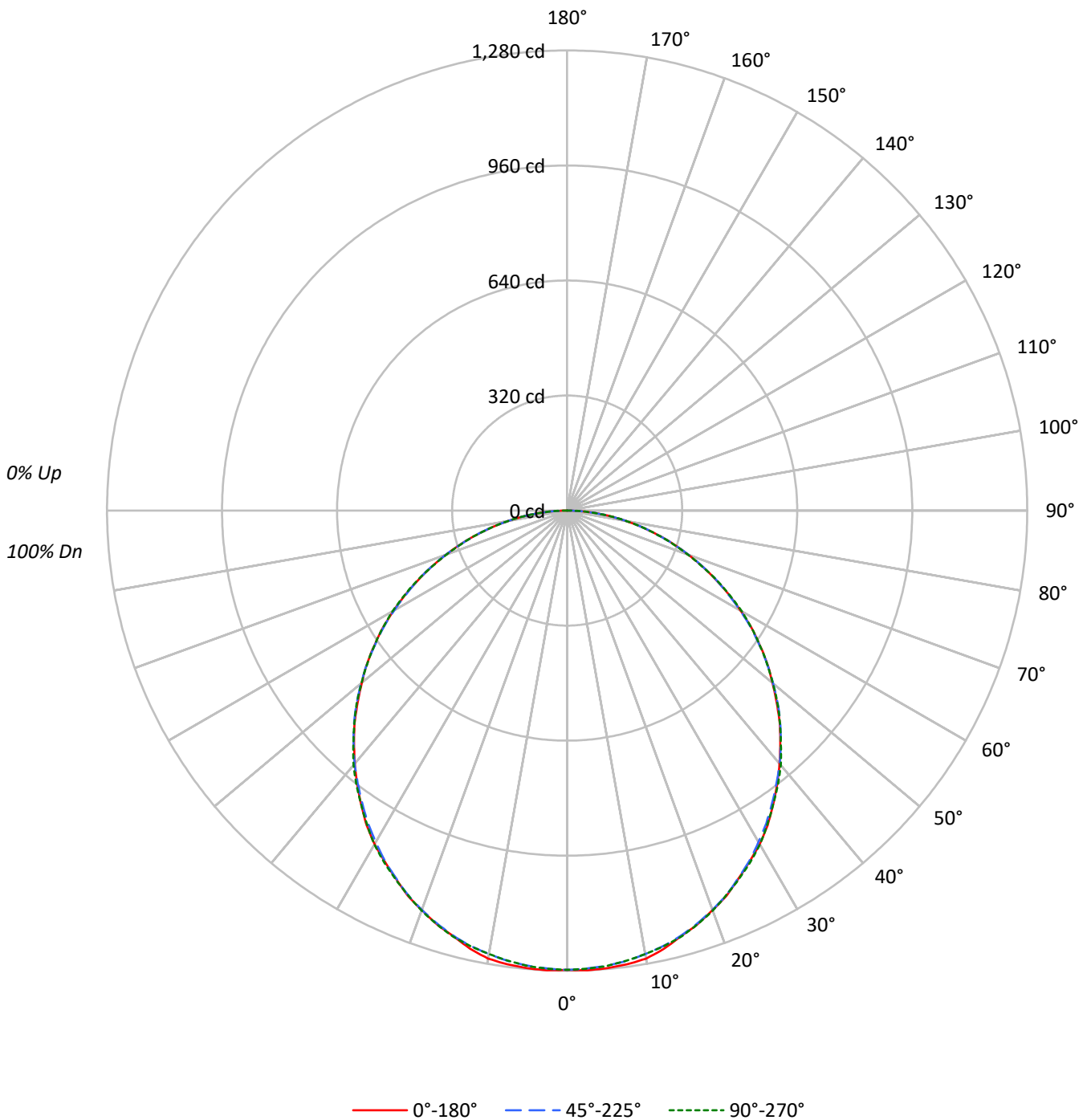
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1719	1719	1719
5°	1725	1716	1717
10°	1729	1711	1711
15°	1706	1705	1709
20°	1693	1692	1696
25°	1675	1674	1679
30°	1665	1654	1666
35°	1641	1633	1641
40°	1614	1615	1625
45°	1591	1596	1593
50°	1561	1566	1563
55°	1537	1533	1537
60°	1501	1496	1510
65°	1455	1460	1465
70°	1407	1414	1404
75°	1358	1358	1358
80°	1282	1282	1296
85°	1184	1198	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.3
10°-20°	345.3	9.4
20°-30°	520.4	14.2
30°-40°	623.3	17.1
40°-50°	645.2	17.7
50°-60°	585.0	16.0
60°-70°	453.5	12.4
70°-80°	275.8	7.5
80°-90°	85.8	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°	986.5	27.0
0°-40°	1609.7	44.0
0°-60°	2839.9	77.7
0°-90°	3655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1278	1270	1271	1269	1271	122
15°	1225	1226	1224	1220	1227	346
25°	1128	1128	1128	1131	1131	521
35°	999	992	994	998	999	625
45°	836	838	839	835	837	644
55°	655	652	653	656	655	586
65°	457	459	459	457	460	453
75°	261	260	261	260	261	276
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°	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1280.1	1274.9	1274.9	1273.2	1275.7
5°	1277.5	1269.7	1270.6	1268.8	1271.4
7.5°	1273.2	1262.8	1263.7	1261.9	1262.8
10°	1265.4	1253.3	1252.5	1251.6	1252.5
12.5°	1248.2	1241.3	1240.4	1238.7	1241.3
15°	1224.9	1225.7	1224.0	1219.7	1226.6
17.5°	1206.8	1205.9	1204.2	1199.9	1206.8
20°	1182.6	1183.5	1181.8	1180.1	1184.4
22.5°	1159.4	1156.8	1157.6	1156.8	1157.6
25°	1128.3	1128.3	1127.5	1130.9	1130.9
27.5°	1099.9	1096.4	1098.2	1101.6	1103.3
30°	1071.4	1062.8	1064.6	1068.0	1072.3
32.5°	1037.8	1029.2	1030.9	1034.4	1036.1
35°	999.0	992.1	993.9	998.2	999.0
37.5°	959.4	955.1	956.8	960.3	962.8
40°	918.9	917.2	919.7	918.9	924.9
42.5°	877.5	876.6	879.2	879.2	880.1
45°	836.1	837.9	838.7	835.3	837.0
47.5°	790.4	791.3	794.8	793.0	793.9
50°	745.6	744.8	748.2	749.1	746.5
52.5°	702.5	698.2	701.7	703.4	701.7
55°	655.1	651.7	653.4	656.0	655.1
57.5°	608.6	605.1	606.0	610.3	608.6
60°	557.7	556.8	556.0	559.4	561.2
62.5°	507.7	506.8	505.1	508.6	510.3
65°	456.9	459.4	458.6	456.9	460.3
67.5°	408.6	411.2	408.6	406.9	406.9
70°	357.7	360.3	359.4	357.7	356.9
72.5°	310.3	310.3	308.6	307.7	308.6
75°	261.2	260.3	261.2	260.3	261.2
77.5°	212.9	213.8	213.8	213.8	212.9
80°	165.5	165.5	165.5	166.4	167.2
82.5°	121.5	119.0	121.5	119.8	120.7
85°	76.7	75.9	77.6	76.7	75.0
87.5°	34.5	35.3	35.3	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)