

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: P294195

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294195
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-LD5-56-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: 4913.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

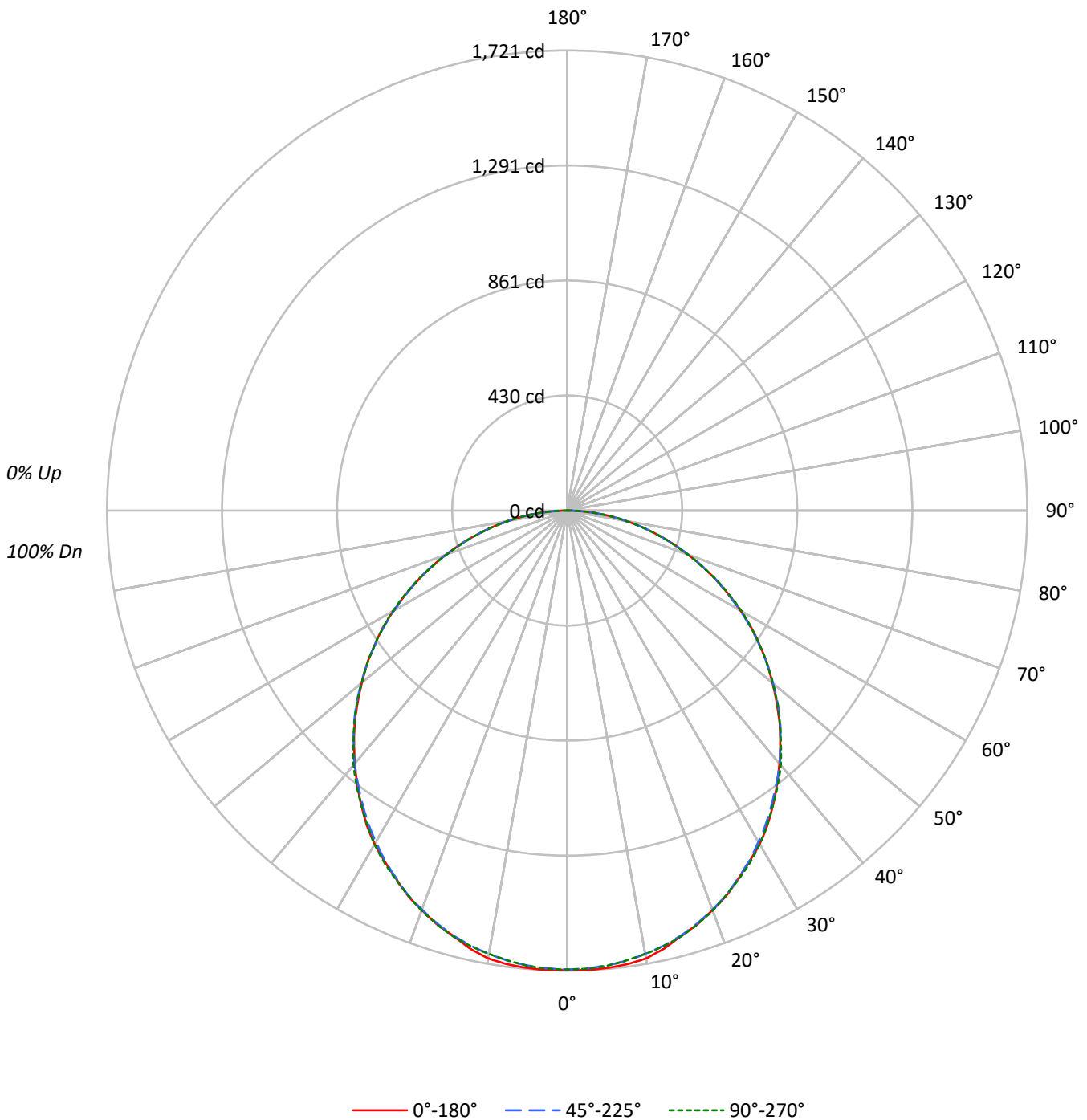
Input Watts (W): 38.967
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294195

CATALOG NUMBER: 24GR-LD5-56-FGW080-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P294195

CATALOG NUMBER: 24GR-LD5-56-FGW080-UNV-L83050-W2A1-U-3500K

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°	2310	2310	2310
5°	2319	2307	2308
10°	2324	2300	2300
15°	2293	2292	2297
20°	2276	2274	2279
25°	2252	2250	2257
30°	2238	2223	2239
35°	2206	2194	2206
40°	2169	2171	2184
45°	2139	2145	2141
50°	2098	2105	2100
55°	2066	2060	2066
60°	2017	2011	2030
65°	1955	1962	1970
70°	1891	1901	1887
75°	1825	1825	1825
80°	1724	1724	1742
85°	1592	1610	1556



TEST NUMBER: P294195

CATALOG NUMBER: 24GR-LD5-56-FGW080-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	3.3
10°-20°	464.2	9.4
20°-30°	699.5	14.2
30°-40°	837.8	17.1
40°-50°	867.2	17.7
50°-60°	786.3	16.0
60°-70°	609.6	12.4
70°-80°	370.7	7.5
80°-90°	115.3	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°	1326.0	27.0
0°-40°	2163.8	44.0
0°-60°	3817.3	77.7
0°-90°	4913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1717	1717	1717	1717	1717	
5°	1717	1707	1708	1706	1709	163
15°	1646	1648	1645	1640	1649	466
25°	1517	1517	1516	1520	1520	700
35°	1343	1334	1336	1342	1343	840
45°	1124	1126	1127	1123	1125	866
55°	881	876	878	882	881	787
65°	614	618	616	614	619	609
75°	351	350	351	350	351	371
85°	103	102	104	103	101	115
90°	0	0	0	0	0	



TEST NUMBER: P294195

CATALOG NUMBER: 24GR-LD5-56-FGW080-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1717.1	1717.1	1717.1	1717.1	1717.1
2.5°	1720.6	1713.7	1713.7	1711.4	1714.8
5°	1717.1	1706.7	1707.9	1705.6	1709.0
7.5°	1711.4	1697.5	1698.6	1696.3	1697.5
10°	1700.9	1684.7	1683.5	1682.4	1683.5
12.5°	1677.8	1668.5	1667.3	1665.0	1668.5
15°	1646.5	1647.6	1645.3	1639.5	1648.8
17.5°	1622.1	1621.0	1618.7	1612.9	1622.1
20°	1589.7	1590.9	1588.5	1586.2	1592.0
22.5°	1558.4	1554.9	1556.1	1554.9	1556.1
25°	1516.7	1516.7	1515.5	1520.2	1520.2
27.5°	1478.5	1473.8	1476.1	1480.8	1483.1
30°	1440.2	1428.6	1431.0	1435.6	1441.4
32.5°	1395.0	1383.5	1385.8	1390.4	1392.7
35°	1342.9	1333.6	1335.9	1341.7	1342.9
37.5°	1289.6	1283.8	1286.1	1290.8	1294.2
40°	1235.1	1232.8	1236.3	1235.1	1243.3
42.5°	1179.5	1178.4	1181.8	1181.8	1183.0
45°	1123.9	1126.2	1127.4	1122.8	1125.1
47.5°	1062.5	1063.7	1068.3	1066.0	1067.1
50°	1002.3	1001.1	1005.7	1006.9	1003.4
52.5°	944.3	938.5	943.2	945.5	943.2
55°	880.6	876.0	878.3	881.7	880.6
57.5°	818.0	813.4	814.5	820.3	818.0
60°	749.7	748.5	747.3	752.0	754.3
62.5°	682.5	681.3	679.0	683.6	685.9
65°	614.1	617.6	616.4	614.1	618.7
67.5°	549.2	552.7	549.2	546.9	546.9
70°	480.8	484.3	483.2	480.8	479.7
72.5°	417.1	417.1	414.8	413.6	414.8
75°	351.1	349.9	351.1	349.9	351.1
77.5°	286.2	287.4	287.4	287.4	286.2
80°	222.5	222.5	222.5	223.6	224.8
82.5°	163.4	159.9	163.4	161.1	162.2
85°	103.1	102.0	104.3	103.1	100.8
87.5°	46.3	47.5	47.5	48.7	48.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)