

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: P294284

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294284
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-LD5-72-FGW080-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6572.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

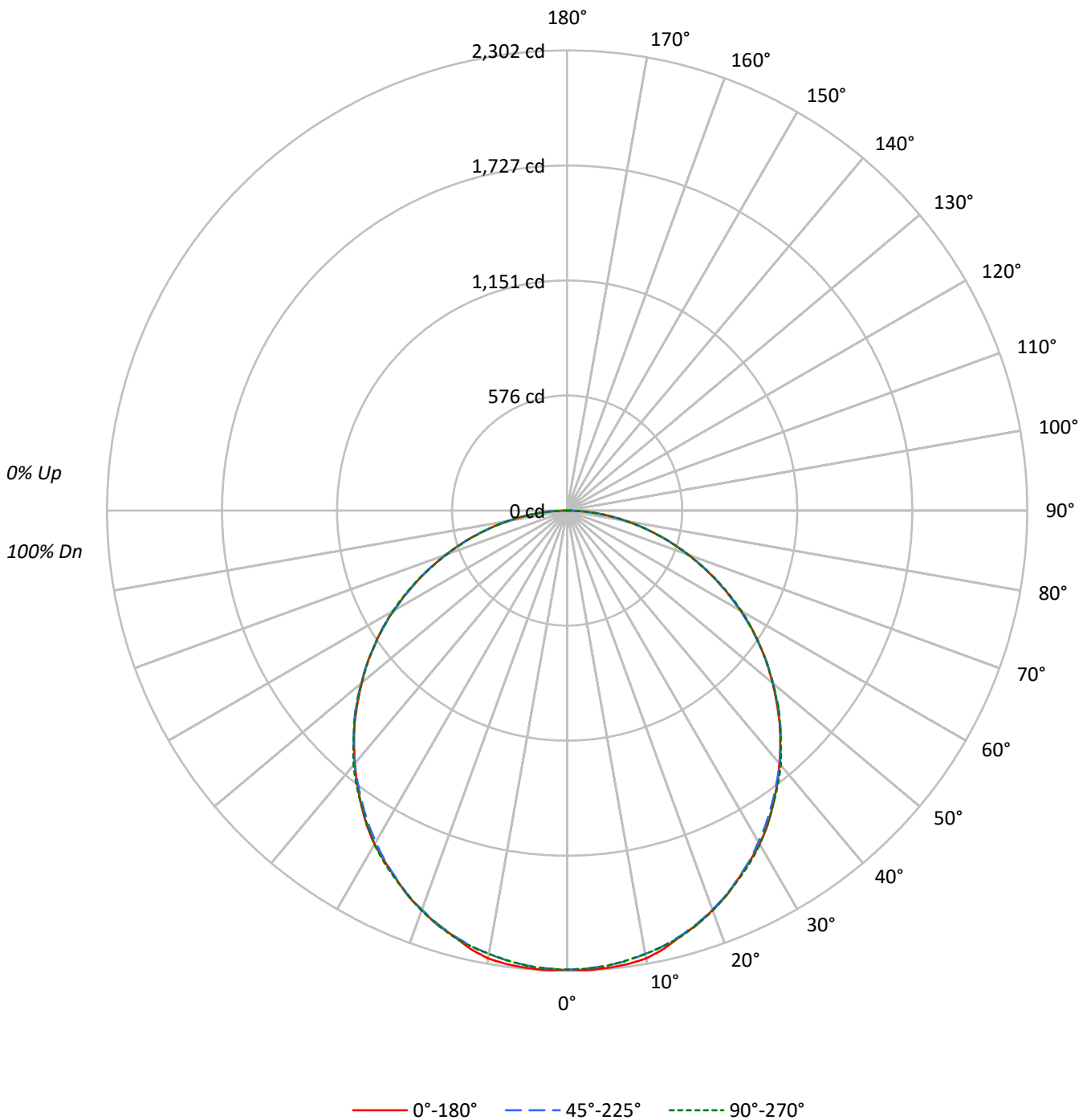
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294284

CATALOG NUMBER: 24GR-LD5-72-FGW080-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P294284

CATALOG NUMBER: 24GR-LD5-72-FGW080-UNV-L82765-W2A1-U-5700K

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°	3091	3091	3091
5°	3102	3086	3088
10°	3109	3077	3077
15°	3068	3066	3072
20°	3045	3043	3049
25°	3012	3010	3019
30°	2993	2974	2996
35°	2951	2935	2951
40°	2902	2905	2921
45°	2861	2870	2864
50°	2806	2816	2810
55°	2763	2756	2763
60°	2699	2690	2715
65°	2615	2625	2635
70°	2530	2543	2524
75°	2441	2441	2441
80°	2306	2306	2330
85°	2129	2154	2081



TEST NUMBER: P294284

CATALOG NUMBER: 24GR-LD5-72-FGW080-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.2	3.3
10°-20°	620.9	9.4
20°-30°	935.7	14.2
30°-40°	1120.7	17.1
40°-50°	1160.0	17.7
50°-60°	1051.8	16.0
60°-70°	815.5	12.4
70°-80°	495.9	7.5
80°-90°	154.3	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°	1773.7	27.0
0°-40°	2894.4	44.0
0°-60°	5106.3	77.7
0°-90°	6572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2297	2297	2297	2297	2297	
5°	2297	2283	2285	2282	2286	219
15°	2202	2204	2201	2193	2206	623
25°	2029	2029	2027	2034	2034	937
35°	1796	1784	1787	1795	1796	1124
45°	1503	1506	1508	1502	1505	1158
55°	1178	1172	1175	1180	1178	1053
65°	822	826	825	822	828	815
75°	470	468	470	468	470	496
85°	138	136	140	138	135	154
90°	0	0	0	0	0	



TEST NUMBER: P294284

CATALOG NUMBER: 24GR-LD5-72-FGW080-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2297.0	2297.0	2297.0	2297.0	2297.0
2.5°	2301.6	2292.3	2292.3	2289.2	2293.9
5°	2297.0	2283.0	2284.6	2281.5	2286.1
7.5°	2289.2	2270.6	2272.2	2269.1	2270.6
10°	2275.3	2253.6	2252.0	2250.5	2252.0
12.5°	2244.3	2231.9	2230.3	2227.2	2231.9
15°	2202.4	2204.0	2200.9	2193.1	2205.5
17.5°	2169.9	2168.3	2165.2	2157.5	2169.9
20°	2126.5	2128.0	2124.9	2121.8	2129.6
22.5°	2084.6	2080.0	2081.5	2080.0	2081.5
25°	2028.9	2028.9	2027.3	2033.5	2033.5
27.5°	1977.7	1971.5	1974.6	1980.8	1983.9
30°	1926.6	1911.1	1914.2	1920.4	1928.1
32.5°	1866.1	1850.6	1853.7	1859.9	1863.0
35°	1796.4	1784.0	1787.1	1794.8	1796.4
37.5°	1725.1	1717.3	1720.4	1726.6	1731.3
40°	1652.2	1649.1	1653.8	1652.2	1663.1
42.5°	1577.8	1576.3	1580.9	1580.9	1582.5
45°	1503.4	1506.5	1508.1	1501.9	1505.0
47.5°	1421.3	1422.8	1429.0	1425.9	1427.5
50°	1340.7	1339.1	1345.3	1346.9	1342.2
52.5°	1263.2	1255.4	1261.6	1264.7	1261.6
55°	1177.9	1171.7	1174.8	1179.5	1177.9
57.5°	1094.2	1088.0	1089.6	1097.3	1094.2
60°	1002.8	1001.3	999.7	1005.9	1009.0
62.5°	912.9	911.4	908.3	914.5	917.6
65°	821.5	826.1	824.6	821.5	827.7
67.5°	734.7	739.3	734.7	731.6	731.6
70°	643.2	647.9	646.3	643.2	641.7
72.5°	558.0	558.0	554.9	553.3	554.9
75°	469.6	468.1	469.6	468.1	469.6
77.5°	382.8	384.4	384.4	384.4	382.8
80°	297.6	297.6	297.6	299.1	300.7
82.5°	218.5	213.9	218.5	215.4	217.0
85°	137.9	136.4	139.5	137.9	134.8
87.5°	62.0	63.5	63.5	65.1	65.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)