

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: P294350

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294350
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-LD5-34-FGW080-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2480.0 lumens
Efficiency: N/A
Efficacy: 108.8 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

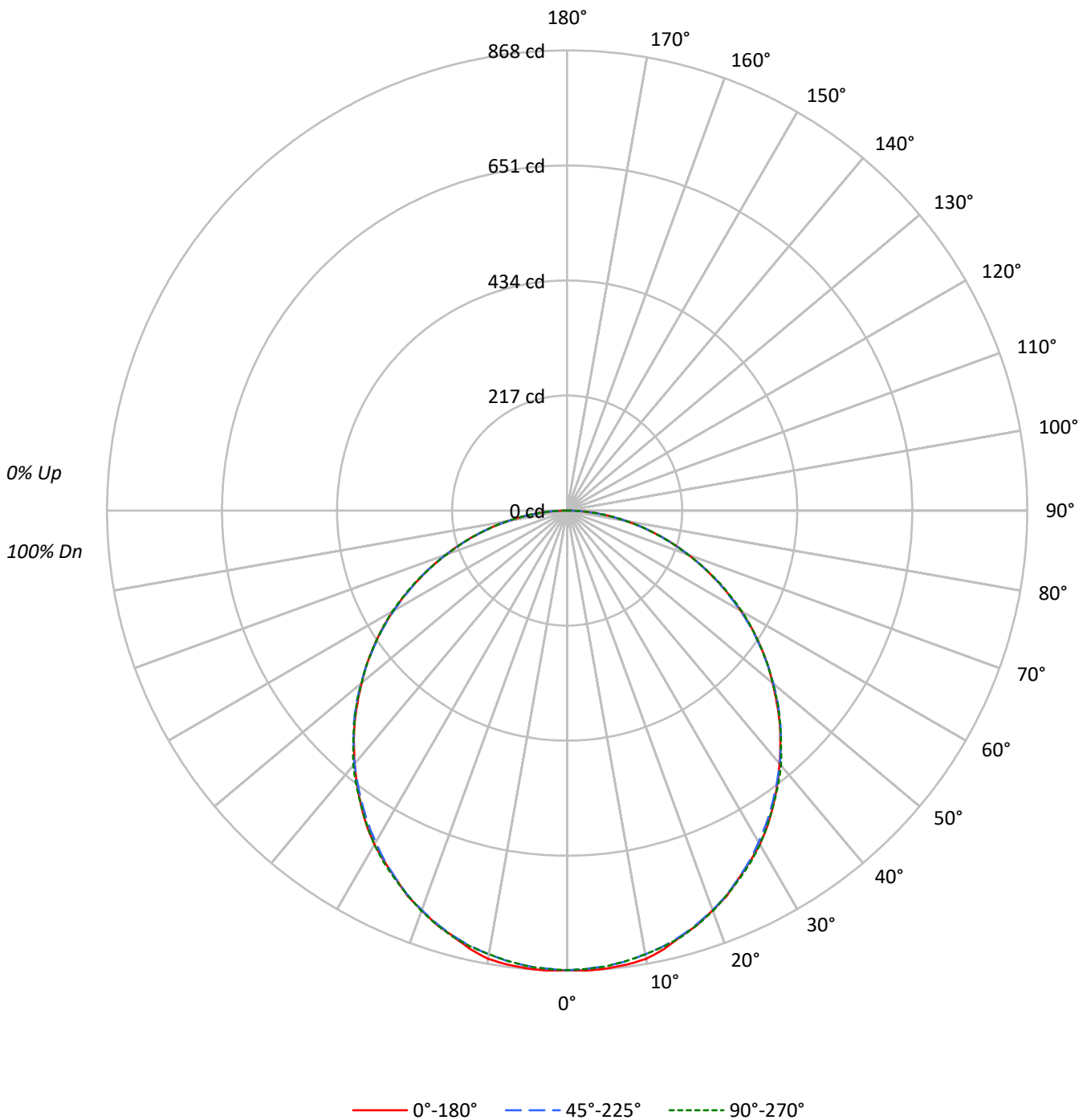
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294350

CATALOG NUMBER: 24GR-LD5-34-FGW080-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P294350

CATALOG NUMBER: 24GR-LD5-34-FGW080-UNV-L92765-W2A1-U-3000K

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°	1166	1166	1166
5°	1171	1164	1165
10°	1173	1161	1161
15°	1158	1157	1159
20°	1149	1148	1151
25°	1137	1136	1139
30°	1129	1122	1130
35°	1113	1108	1113
40°	1095	1096	1102
45°	1079	1083	1081
50°	1059	1063	1060
55°	1043	1040	1043
60°	1018	1015	1025
65°	987	991	994
70°	955	959	952
75°	921	921	921
80°	870	870	879
85°	804	812	786



TEST NUMBER: P294350

CATALOG NUMBER: 24GR-LD5-34-FGW080-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.3
10°-20°	234.3	9.4
20°-30°	353.1	14.2
30°-40°	422.9	17.1
40°-50°	437.8	17.7
50°-60°	396.9	16.0
60°-70°	307.7	12.4
70°-80°	187.1	7.5
80°-90°	58.2	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°	669.3	27.0
0°-40°	1092.2	44.0
0°-60°	1926.9	77.7
0°-90°	2480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	867	862	862	861	863	82
15°	831	832	830	828	832	235
25°	766	766	765	767	767	353
35°	678	673	674	677	678	424
45°	567	568	569	567	568	437
55°	444	442	443	445	444	397
65°	310	312	311	310	312	307
75°	177	177	177	177	177	187
85°	52	52	53	52	51	58
90°	0	0	0	0	0	



TEST NUMBER: P294350

CATALOG NUMBER: 24GR-LD5-34-FGW080-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.8	866.8	866.8	866.8	866.8
2.5°	868.5	865.0	865.0	863.9	865.6
5°	866.8	861.5	862.1	860.9	862.7
7.5°	863.9	856.8	857.4	856.3	856.8
10°	858.6	850.4	849.8	849.2	849.8
12.5°	846.9	842.2	841.6	840.5	842.2
15°	831.1	831.7	830.5	827.6	832.3
17.5°	818.8	818.2	817.1	814.1	818.8
20°	802.5	803.0	801.9	800.7	803.6
22.5°	786.7	784.9	785.5	784.9	785.5
25°	765.6	765.6	765.0	767.4	767.4
27.5°	746.3	744.0	745.1	747.5	748.6
30°	727.0	721.2	722.3	724.7	727.6
32.5°	704.2	698.3	699.5	701.9	703.0
35°	677.9	673.2	674.4	677.3	677.9
37.5°	651.0	648.0	649.2	651.6	653.3
40°	623.5	622.3	624.1	623.5	627.6
42.5°	595.4	594.8	596.6	596.6	597.2
45°	567.3	568.5	569.1	566.7	567.9
47.5°	536.3	536.9	539.3	538.1	538.7
50°	505.9	505.3	507.7	508.3	506.5
52.5°	476.7	473.8	476.1	477.3	476.1
55°	444.5	442.2	443.3	445.1	444.5
57.5°	412.9	410.6	411.2	414.1	412.9
60°	378.4	377.8	377.2	379.6	380.8
62.5°	344.5	343.9	342.7	345.1	346.2
65°	310.0	311.7	311.2	310.0	312.3
67.5°	277.2	279.0	277.2	276.1	276.1
70°	242.7	244.5	243.9	242.7	242.1
72.5°	210.6	210.6	209.4	208.8	209.4
75°	177.2	176.6	177.2	176.6	177.2
77.5°	144.5	145.0	145.0	145.0	144.5
80°	112.3	112.3	112.3	112.9	113.5
82.5°	82.5	80.7	82.5	81.3	81.9
85°	52.1	51.5	52.6	52.1	50.9
87.5°	23.4	24.0	24.0	24.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)