

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: P291632

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3470.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

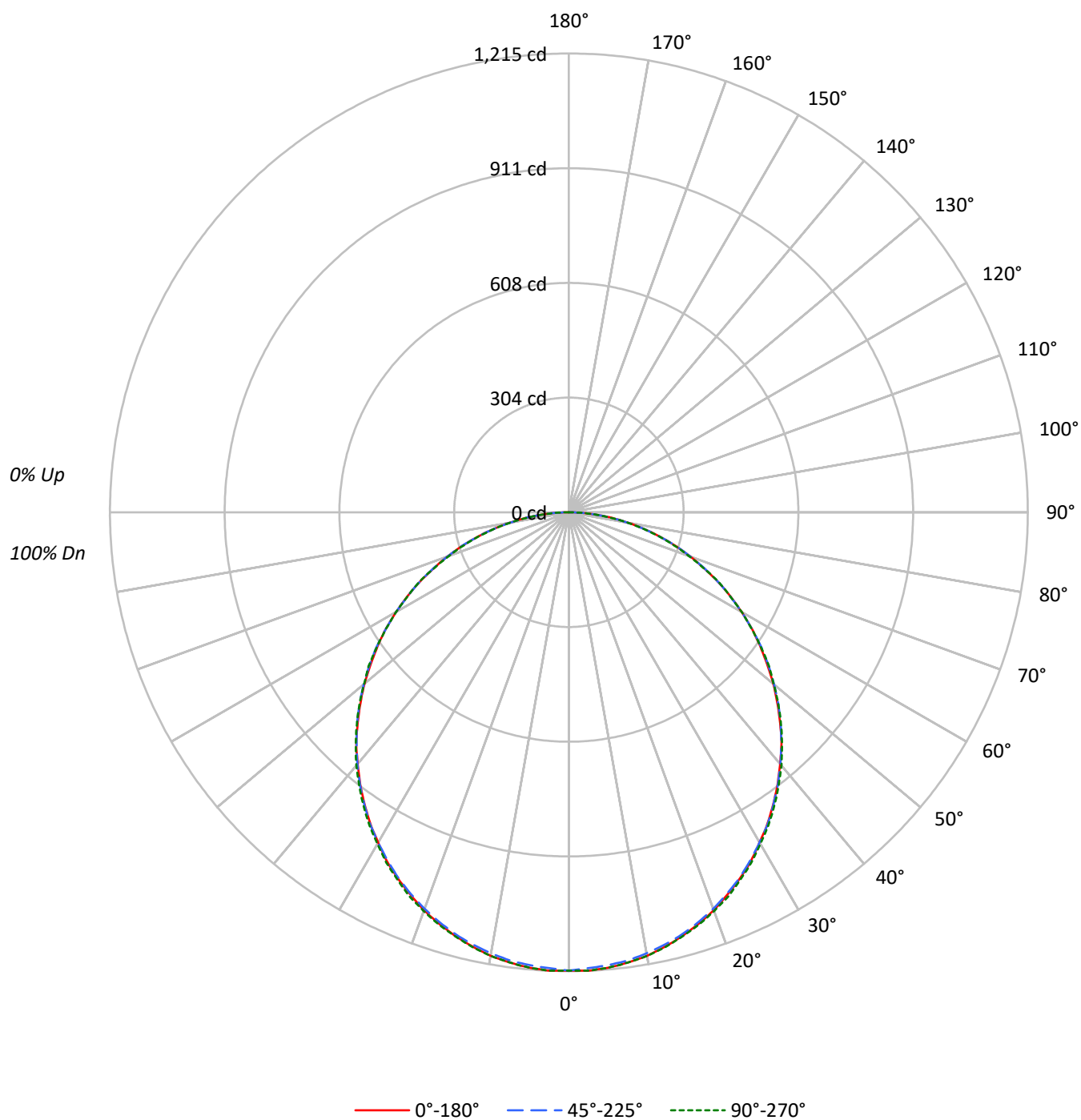
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291632

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P291632

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-5500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3266	3266	3266
5°	3269	3251	3269
10°	3258	3240	3258
15°	3236	3223	3239
20°	3212	3199	3218
25°	3178	3172	3188
30°	3136	3136	3150
35°	3098	3101	3116
40°	3055	3059	3074
45°	3010	3018	3022
50°	2958	2967	2963
55°	2899	2914	2909
60°	2842	2842	2842
65°	2776	2776	2790
70°	2688	2688	2662
75°	2595	2584	2572
80°	2475	2458	2441
85°	2328	2294	2226



TEST NUMBER: P291632

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.3
10°-20°	327.5	9.4
20°-30°	493.5	14.2
30°-40°	591.5	17.0
40°-50°	611.6	17.6
50°-60°	554.6	16.0
60°-70°	431.0	12.4
70°-80°	263.2	7.6
80°-90°	82.4	2.4
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°	935.8	27.0
0°-40°	1527.3	44.0
0°-60°	2693.4	77.6
0°-90°	3470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1210	1209	1204	1209	1210	115
15°	1161	1161	1157	1162	1162	328
25°	1070	1070	1068	1075	1074	493
35°	943	944	944	948	948	590
45°	791	792	793	794	794	610
55°	618	620	621	621	620	553
65°	436	436	436	434	438	431
75°	250	250	248	247	247	264
85°	75	73	74	72	72	83
90°	0	0	0	0	0	



TEST NUMBER: P291632

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.5	1213.5	1213.5	1213.5	1213.5
2.5°	1214.6	1213.5	1208.0	1213.5	1214.6
5°	1210.2	1209.1	1203.5	1209.1	1210.2
7.5°	1202.4	1202.4	1196.9	1202.4	1202.4
10°	1192.5	1191.3	1185.8	1191.3	1192.5
12.5°	1178.0	1178.0	1172.5	1178.0	1179.1
15°	1161.4	1161.4	1157.0	1162.5	1162.5
17.5°	1142.5	1143.6	1138.1	1144.8	1144.8
20°	1121.5	1120.4	1117.0	1122.6	1123.7
22.5°	1095.9	1097.1	1093.7	1100.4	1101.5
25°	1070.4	1070.4	1068.2	1074.9	1073.8
27.5°	1042.7	1042.7	1039.4	1044.9	1046.0
30°	1009.4	1010.5	1009.4	1015.0	1013.9
32.5°	978.4	979.5	979.5	981.7	982.8
35°	942.9	944.0	944.0	948.4	948.4
37.5°	907.4	907.4	908.5	911.8	911.8
40°	869.7	870.8	870.8	874.1	875.2
42.5°	833.1	830.8	831.9	835.3	835.3
45°	790.9	792.0	793.1	794.2	794.2
47.5°	748.7	751.0	752.1	753.2	752.1
50°	706.6	708.8	708.8	707.7	707.7
52.5°	661.1	666.7	665.6	665.6	667.8
55°	617.9	620.1	621.2	621.2	620.1
57.5°	574.6	576.8	574.6	575.7	573.5
60°	528.0	529.1	528.0	528.0	528.0
62.5°	482.5	483.6	481.4	481.4	481.4
65°	435.9	435.9	435.9	433.7	438.2
67.5°	387.1	389.3	389.3	390.5	386.0
70°	341.7	342.8	341.7	340.5	338.3
72.5°	296.2	297.3	298.4	294.0	292.8
75°	249.6	249.6	248.5	247.4	247.4
77.5°	204.1	204.1	204.1	201.9	201.9
80°	159.7	160.8	158.6	158.6	157.5
82.5°	116.5	116.5	116.5	115.4	113.1
85°	75.4	73.2	74.3	72.1	72.1
87.5°	34.4	34.4	34.4	32.2	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)