

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: P291631

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291631
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3436.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

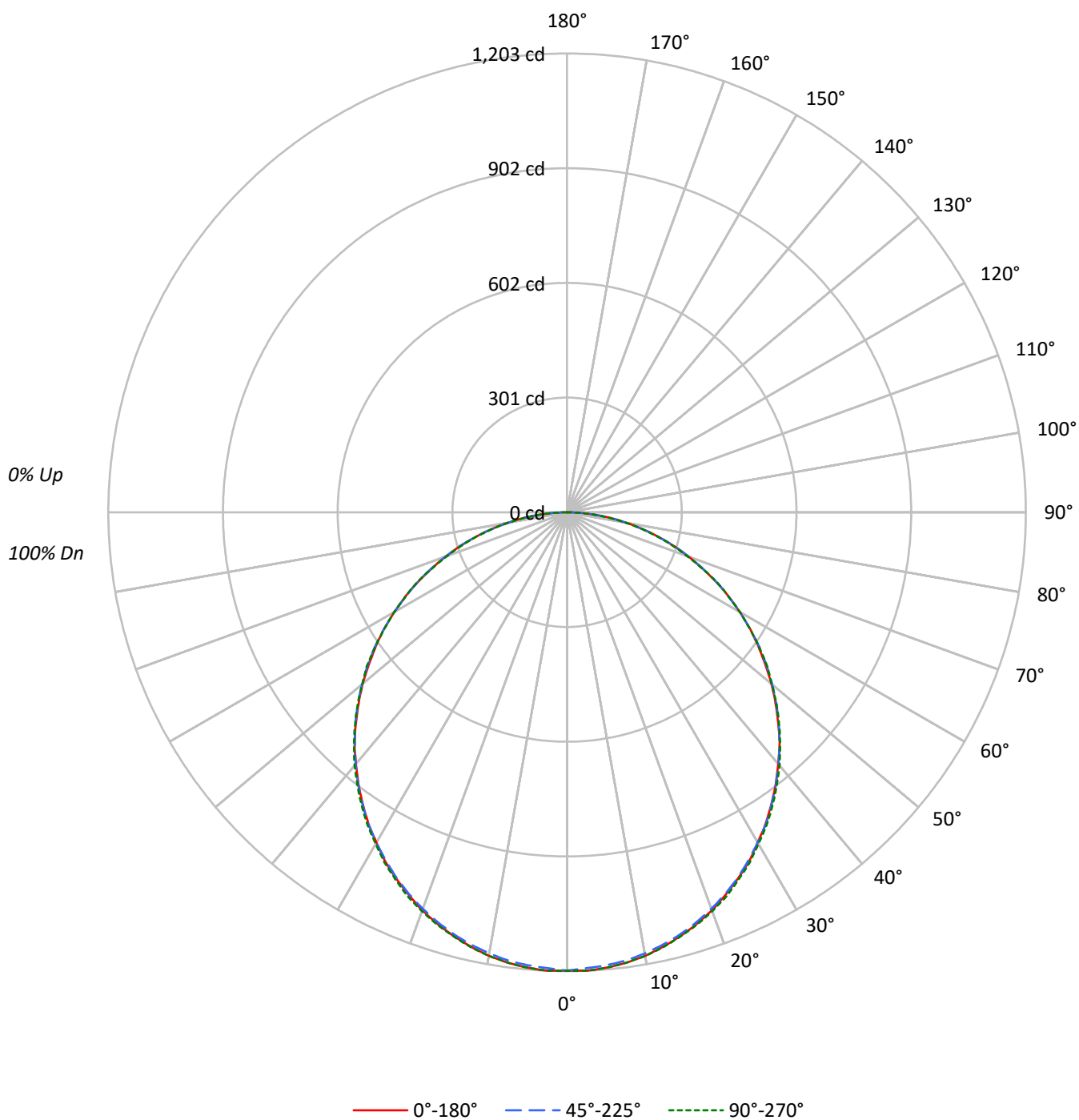
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	3233	3233	3233
5°	3237	3219	3237
10°	3227	3208	3227
15°	3204	3192	3207
20°	3180	3168	3186
25°	3147	3140	3157
30°	3106	3106	3119
35°	3067	3071	3085
40°	3025	3029	3044
45°	2981	2989	2993
50°	2929	2938	2934
55°	2870	2886	2881
60°	2814	2814	2814
65°	2749	2749	2763
70°	2662	2662	2636
75°	2569	2558	2546
80°	2452	2435	2417
85°	2306	2272	2205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.3
10°-20°	324.3	9.4
20°-30°	488.7	14.2
30°-40°	585.7	17.0
40°-50°	605.6	17.6
50°-60°	549.1	16.0
60°-70°	426.7	12.4
70°-80°	260.7	7.6
80°-90°	81.6	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°	926.6	27.0
0°-40°	1512.3	44.0
0°-60°	2667.0	77.6
0°-90°	3436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1198	1197	1192	1197	1198	114
15°	1150	1150	1146	1151	1151	325
25°	1060	1060	1058	1064	1063	488
35°	934	935	935	939	939	584
45°	783	784	785	786	786	604
55°	612	614	615	615	614	547
65°	432	432	432	430	434	426
75°	247	247	246	245	245	261
85°	75	72	74	71	71	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1201.6	1201.6	1201.6	1201.6	1201.6
2.5°	1202.7	1201.6	1196.1	1201.6	1202.7
5°	1198.3	1197.2	1191.8	1197.2	1198.3
7.5°	1190.7	1190.7	1185.2	1190.7	1190.7
10°	1180.8	1179.7	1174.2	1179.7	1180.8
12.5°	1166.5	1166.5	1161.0	1166.5	1167.6
15°	1150.0	1150.0	1145.6	1151.1	1151.1
17.5°	1131.3	1132.4	1126.9	1133.5	1133.5
20°	1110.5	1109.4	1106.1	1111.6	1112.7
22.5°	1085.2	1086.3	1083.0	1089.6	1090.7
25°	1059.9	1059.9	1057.7	1064.3	1063.2
27.5°	1032.5	1032.5	1029.2	1034.7	1035.8
30°	999.5	1000.6	999.5	1005.0	1003.9
32.5°	968.8	969.9	969.9	972.1	973.2
35°	933.6	934.7	934.7	939.1	939.1
37.5°	898.5	898.5	899.6	902.9	902.9
40°	861.1	862.2	862.2	865.5	866.6
42.5°	824.9	822.7	823.8	827.1	827.1
45°	783.2	784.2	785.3	786.4	786.4
47.5°	741.4	743.6	744.7	745.8	744.7
50°	699.7	701.9	701.9	700.8	700.8
52.5°	654.6	660.1	659.0	659.0	661.2
55°	611.8	614.0	615.1	615.1	614.0
57.5°	569.0	571.2	569.0	570.1	567.9
60°	522.8	523.9	522.8	522.8	522.8
62.5°	477.8	478.9	476.7	476.7	476.7
65°	431.7	431.7	431.7	429.5	433.9
67.5°	383.3	385.5	385.5	386.6	382.2
70°	338.3	339.4	338.3	337.2	335.0
72.5°	293.3	294.4	295.5	291.1	290.0
75°	247.1	247.1	246.0	244.9	244.9
77.5°	202.1	202.1	202.1	199.9	199.9
80°	158.2	159.3	157.1	157.1	156.0
82.5°	115.3	115.3	115.3	114.2	112.0
85°	74.7	72.5	73.6	71.4	71.4
87.5°	34.1	34.1	34.1	31.9	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)