

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: P291634

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291634
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3488.0 lumens
Efficiency: N/A
Efficacy: 91.5 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

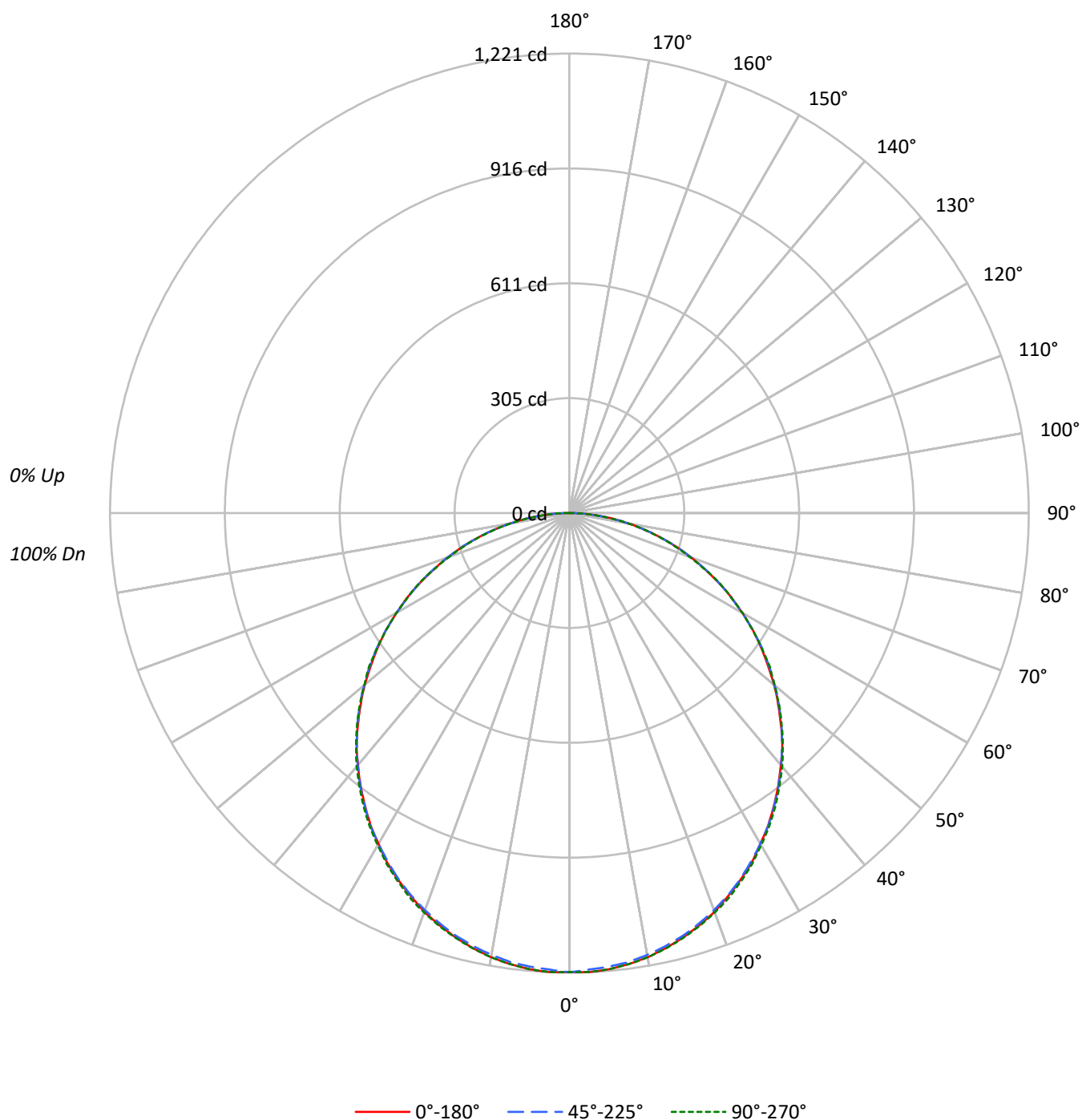
Input Watts (W): 38.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3282	3282	3282
5°	3286	3268	3286
10°	3275	3257	3275
15°	3252	3240	3255
20°	3228	3215	3235
25°	3195	3188	3205
30°	3153	3153	3167
35°	3114	3117	3132
40°	3071	3075	3090
45°	3025	3034	3038
50°	2974	2983	2978
55°	2914	2929	2924
60°	2856	2856	2856
65°	2790	2790	2804
70°	2702	2702	2676
75°	2609	2597	2585
80°	2489	2470	2453
85°	2340	2306	2238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	3.3
10°-20°	329.2	9.4
20°-30°	496.1	14.2
30°-40°	594.5	17.0
40°-50°	614.8	17.6
50°-60°	557.4	16.0
60°-70°	433.2	12.4
70°-80°	264.6	7.6
80°-90°	82.8	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°	940.7	27.0
0°-40°	1535.2	44.0
0°-60°	2707.4	77.6
0°-90°	3488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1216	1215	1210	1215	1216	116
15°	1167	1167	1163	1168	1168	329
25°	1076	1076	1074	1080	1079	496
35°	948	949	949	953	953	593
45°	795	796	797	798	798	613
55°	621	623	624	624	623	556
65°	438	438	438	436	440	433
75°	251	251	250	249	249	265
85°	76	74	75	72	72	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.8	1219.8	1219.8	1219.8	1219.8
2.5°	1220.9	1219.8	1214.2	1219.8	1220.9
5°	1216.5	1215.4	1209.8	1215.4	1216.5
7.5°	1208.7	1208.7	1203.1	1208.7	1208.7
10°	1198.6	1197.5	1191.9	1197.5	1198.6
12.5°	1184.1	1184.1	1178.6	1184.1	1185.3
15°	1167.4	1167.4	1163.0	1168.5	1168.5
17.5°	1148.5	1149.6	1144.0	1150.7	1150.7
20°	1127.3	1126.2	1122.8	1128.4	1129.5
22.5°	1101.6	1102.7	1099.4	1106.1	1107.2
25°	1076.0	1076.0	1073.8	1080.4	1079.3
27.5°	1048.1	1048.1	1044.8	1050.3	1051.5
30°	1014.7	1015.8	1014.7	1020.2	1019.1
32.5°	983.4	984.6	984.6	986.8	987.9
35°	947.8	948.9	948.9	953.3	953.3
37.5°	912.1	912.1	913.2	916.5	916.5
40°	874.2	875.3	875.3	878.6	879.7
42.5°	837.4	835.1	836.3	839.6	839.6
45°	795.0	796.1	797.2	798.3	798.3
47.5°	752.6	754.9	756.0	757.1	756.0
50°	710.3	712.5	712.5	711.4	711.4
52.5°	664.5	670.1	669.0	669.0	671.2
55°	621.1	623.3	624.4	624.4	623.3
57.5°	577.6	579.8	577.6	578.7	576.5
60°	530.7	531.9	530.7	530.7	530.7
62.5°	485.0	486.1	483.9	483.9	483.9
65°	438.2	438.2	438.2	436.0	440.4
67.5°	389.1	391.4	391.4	392.5	388.0
70°	343.4	344.5	343.4	342.3	340.1
72.5°	297.7	298.8	299.9	295.5	294.4
75°	250.9	250.9	249.8	248.6	248.6
77.5°	205.2	205.2	205.2	202.9	202.9
80°	160.6	161.7	159.4	159.4	158.3
82.5°	117.1	117.1	117.1	116.0	113.7
85°	75.8	73.6	74.7	72.5	72.5
87.5°	34.6	34.6	34.6	32.3	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)