

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: P291570

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291570
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-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3537.0 lumens
Efficiency: N/A
Efficacy: 92.3 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

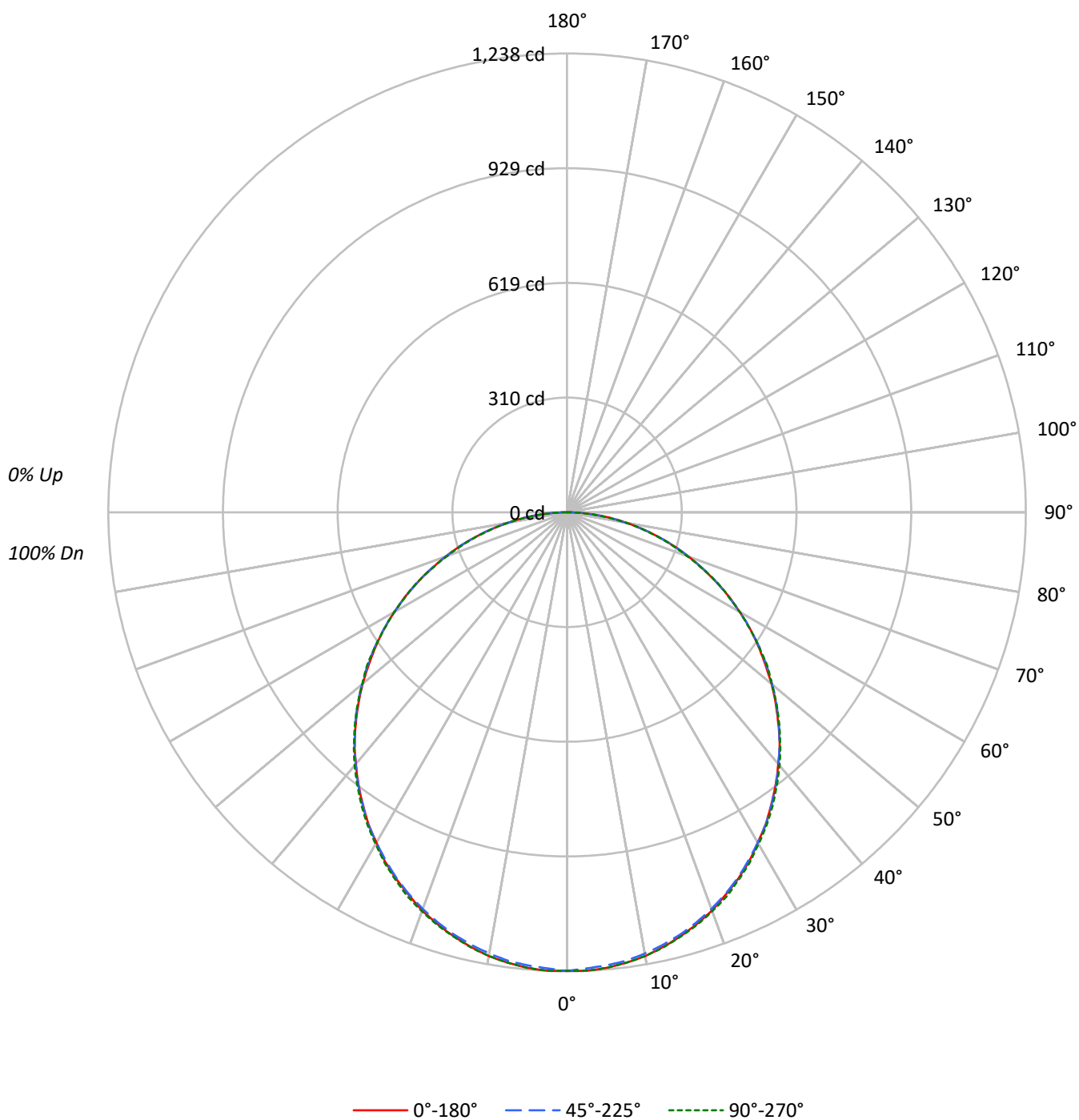
Input Watts (W): 38.316
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3329	3329	3329
5°	3332	3314	3332
10°	3321	3303	3321
15°	3298	3285	3301
20°	3273	3261	3280
25°	3240	3233	3250
30°	3197	3197	3211
35°	3157	3161	3176
40°	3114	3118	3134
45°	3068	3076	3081
50°	3015	3025	3020
55°	2955	2971	2965
60°	2897	2897	2897
65°	2830	2830	2844
70°	2740	2740	2714
75°	2645	2634	2621
80°	2523	2506	2489
85°	2374	2340	2269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.3
10°-20°	333.8	9.4
20°-30°	503.1	14.2
30°-40°	602.9	17.0
40°-50°	623.4	17.6
50°-60°	565.3	16.0
60°-70°	439.3	12.4
70°-80°	268.3	7.6
80°-90°	84.0	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°	953.9	27.0
0°-40°	1556.7	44.0
0°-60°	2745.4	77.6
0°-90°	3537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1234	1232	1227	1232	1234	117
15°	1184	1184	1179	1185	1185	334
25°	1091	1091	1089	1096	1094	503
35°	961	962	962	967	967	601
45°	806	807	808	810	810	622
55°	630	632	633	633	632	563
65°	444	444	444	442	447	439
75°	254	254	253	252	252	269
85°	77	75	76	74	74	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.0	1237.0	1237.0	1237.0	1237.0
2.5°	1238.1	1237.0	1231.3	1237.0	1238.1
5°	1233.6	1232.4	1226.8	1232.4	1233.6
7.5°	1225.7	1225.7	1220.0	1225.7	1225.7
10°	1215.5	1214.3	1208.7	1214.3	1215.5
12.5°	1200.8	1200.8	1195.1	1200.8	1201.9
15°	1183.8	1183.8	1179.3	1184.9	1184.9
17.5°	1164.6	1165.7	1160.1	1166.9	1166.9
20°	1143.1	1142.0	1138.6	1144.2	1145.4
22.5°	1117.1	1118.2	1114.8	1121.6	1122.8
25°	1091.1	1091.1	1088.8	1095.6	1094.5
27.5°	1062.8	1062.8	1059.4	1065.1	1066.2
30°	1028.9	1030.0	1028.9	1034.6	1033.4
32.5°	997.3	998.4	998.4	1000.6	1001.8
35°	961.1	962.2	962.2	966.7	966.7
37.5°	924.9	924.9	926.0	929.4	929.4
40°	886.4	887.6	887.6	891.0	892.1
42.5°	849.1	846.9	848.0	851.4	851.4
45°	806.2	807.3	808.4	809.6	809.6
47.5°	763.2	765.5	766.6	767.7	766.6
50°	720.2	722.5	722.5	721.4	721.4
52.5°	673.9	679.5	678.4	678.4	680.7
55°	629.8	632.0	633.2	633.2	632.0
57.5°	585.7	588.0	585.7	586.8	584.6
60°	538.2	539.3	538.2	538.2	538.2
62.5°	491.8	493.0	490.7	490.7	490.7
65°	444.4	444.4	444.4	442.1	446.6
67.5°	394.6	396.9	396.9	398.0	393.5
70°	348.2	349.4	348.2	347.1	344.9
72.5°	301.9	303.0	304.2	299.6	298.5
75°	254.4	254.4	253.3	252.1	252.1
77.5°	208.0	208.0	208.0	205.8	205.8
80°	162.8	163.9	161.7	161.7	160.6
82.5°	118.7	118.7	118.7	117.6	115.3
85°	76.9	74.6	75.8	73.5	73.5
87.5°	35.1	35.1	35.1	32.8	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)