

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: P291569

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291569
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3504.0 lumens
Efficiency: N/A
Efficacy: 93.7 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

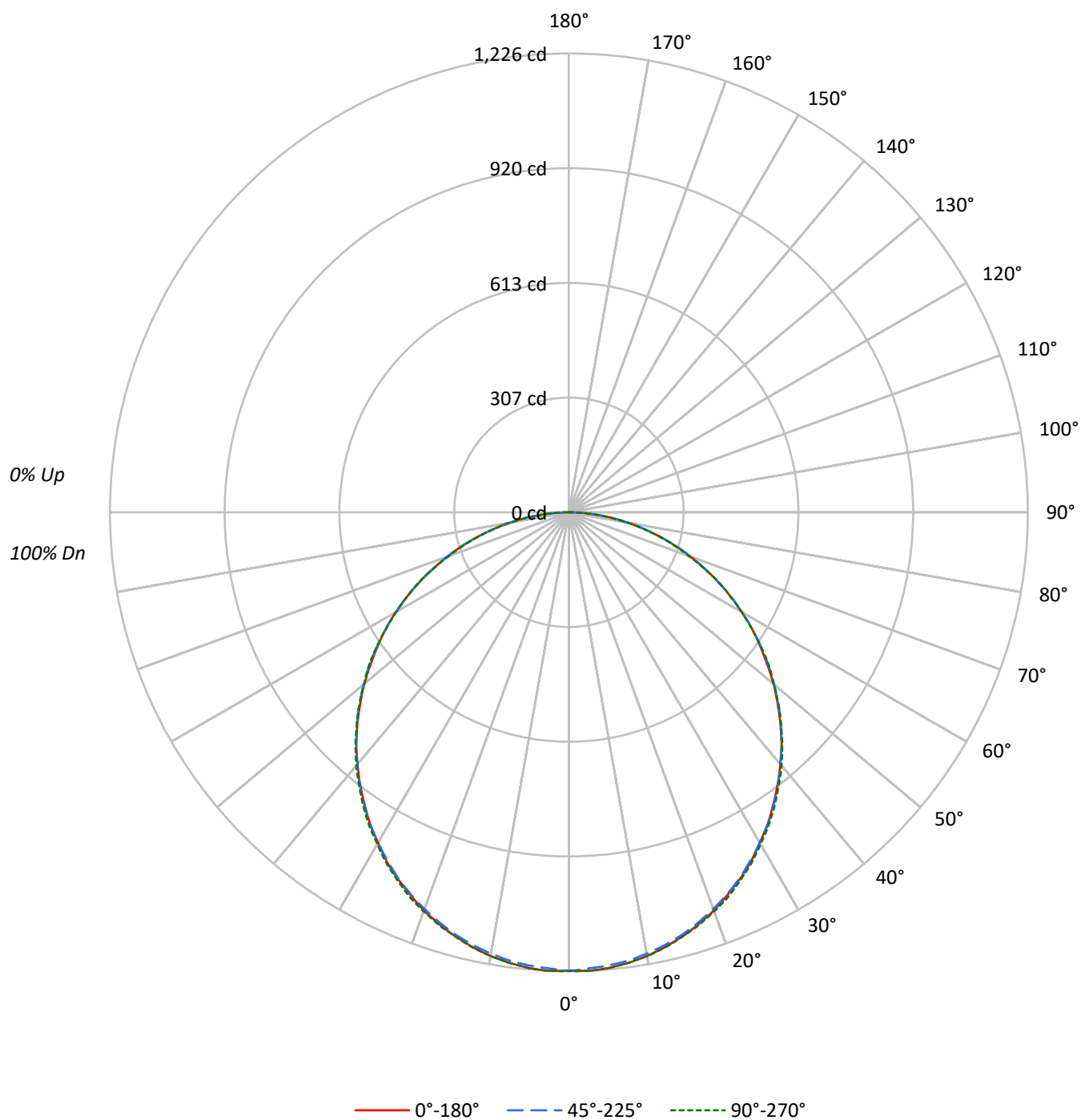
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3298	3298	3298
5°	3301	3283	3301
10°	3290	3272	3290
15°	3267	3255	3270
20°	3243	3230	3249
25°	3209	3203	3219
30°	3167	3167	3181
35°	3128	3131	3146
40°	3085	3089	3105
45°	3040	3048	3052
50°	2987	2997	2992
55°	2927	2943	2938
60°	2870	2870	2870
65°	2803	2803	2818
70°	2714	2714	2688
75°	2620	2609	2597
80°	2500	2483	2466
85°	2353	2316	2248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	3.3
10°-20°	330.7	9.4
20°-30°	498.4	14.2
30°-40°	597.2	17.0
40°-50°	617.6	17.6
50°-60°	560.0	16.0
60°-70°	435.2	12.4
70°-80°	265.8	7.6
80°-90°	83.2	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°	945.0	27.0
0°-40°	1542.2	44.0
0°-60°	2719.8	77.6
0°-90°	3504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1225	1225	1225	1225	1225	
5°	1222	1221	1215	1221	1222	116
15°	1173	1173	1168	1174	1174	331
25°	1081	1081	1079	1085	1084	498
35°	952	953	953	958	958	596
45°	799	800	801	802	802	616
55°	624	626	627	627	626	558
65°	440	440	440	438	442	435
75°	252	252	251	250	250	267
85°	76	74	75	73	73	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.4	1225.4	1225.4	1225.4	1225.4
2.5°	1226.5	1225.4	1219.8	1225.4	1226.5
5°	1222.1	1220.9	1215.3	1220.9	1222.1
7.5°	1214.2	1214.2	1208.6	1214.2	1214.2
10°	1204.1	1203.0	1197.4	1203.0	1204.1
12.5°	1189.6	1189.6	1184.0	1189.6	1190.7
15°	1172.8	1172.8	1168.3	1173.9	1173.9
17.5°	1153.7	1154.9	1149.3	1156.0	1156.0
20°	1132.4	1131.3	1128.0	1133.6	1134.7
22.5°	1106.7	1107.8	1104.4	1111.2	1112.3
25°	1080.9	1080.9	1078.7	1085.4	1084.3
27.5°	1052.9	1052.9	1049.6	1055.2	1056.3
30°	1019.3	1020.4	1019.3	1024.9	1023.8
32.5°	988.0	989.1	989.1	991.3	992.4
35°	952.1	953.2	953.2	957.7	957.7
37.5°	916.3	916.3	917.4	920.7	920.7
40°	878.2	879.3	879.3	882.7	883.8
42.5°	841.2	839.0	840.1	843.5	843.5
45°	798.7	799.8	800.9	802.0	802.0
47.5°	756.1	758.3	759.4	760.6	759.4
50°	713.5	715.8	715.8	714.6	714.6
52.5°	667.6	673.2	672.1	672.1	674.3
55°	623.9	626.2	627.3	627.3	626.2
57.5°	580.2	582.5	580.2	581.3	579.1
60°	533.2	534.3	533.2	533.2	533.2
62.5°	487.3	488.4	486.1	486.1	486.1
65°	440.2	440.2	440.2	438.0	442.5
67.5°	390.9	393.2	393.2	394.3	389.8
70°	345.0	346.1	345.0	343.9	341.6
72.5°	299.1	300.2	301.3	296.8	295.7
75°	252.0	252.0	250.9	249.8	249.8
77.5°	206.1	206.1	206.1	203.9	203.9
80°	161.3	162.4	160.2	160.2	159.1
82.5°	117.6	117.6	117.6	116.5	114.3
85°	76.2	73.9	75.0	72.8	72.8
87.5°	34.7	34.7	34.7	32.5	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)