

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: P291572

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291572
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-LD5-20-FGW080-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1446.0 lumens
Efficiency: N/A
Efficacy: 93.1 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

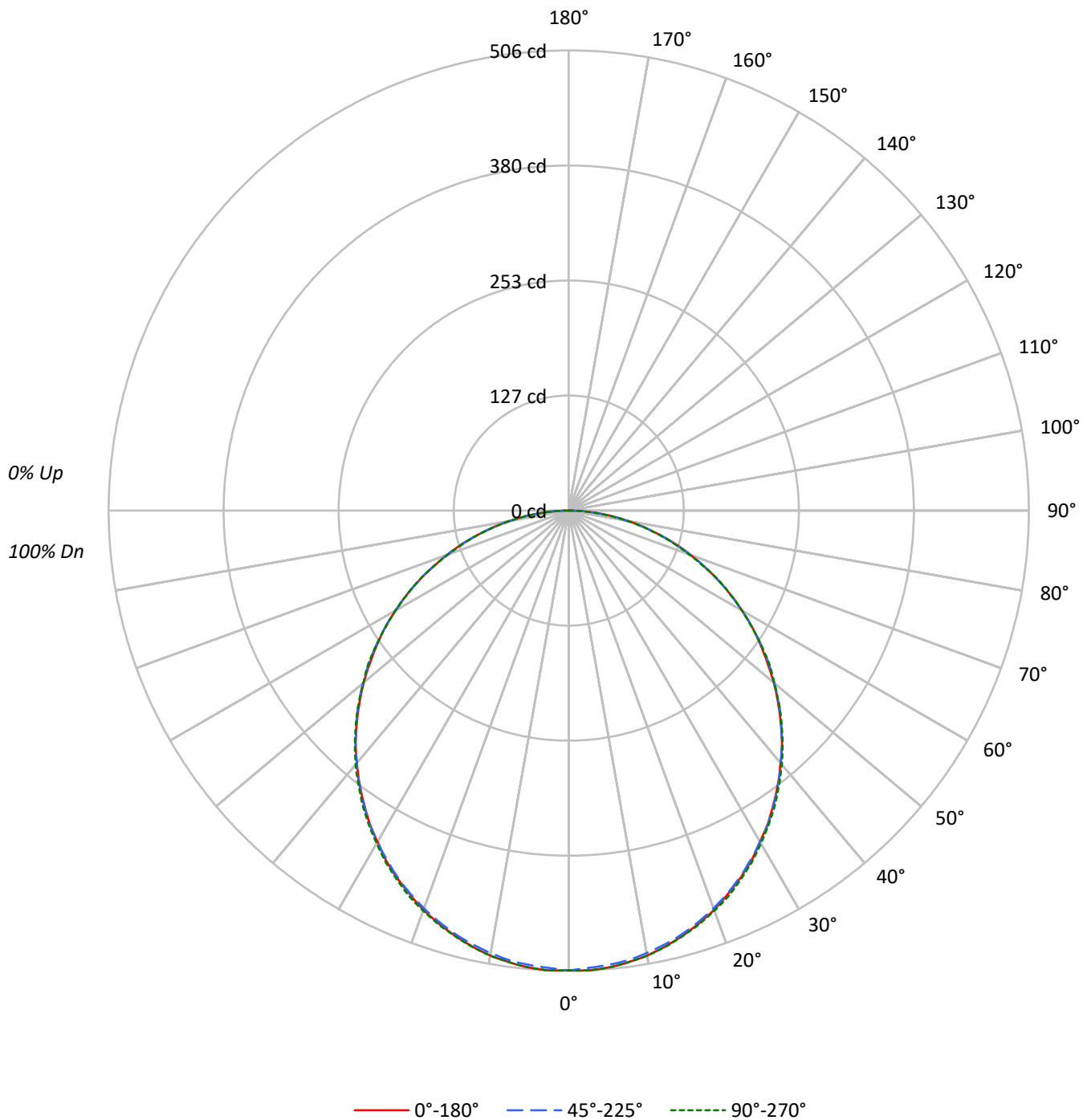
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1361	1361	1361
5°	1362	1355	1362
10°	1358	1350	1358
15°	1348	1343	1349
20°	1338	1333	1341
25°	1325	1322	1329
30°	1307	1307	1313
35°	1291	1292	1298
40°	1273	1275	1281
45°	1254	1258	1260
50°	1232	1237	1235
55°	1208	1215	1212
60°	1184	1184	1184
65°	1157	1157	1163
70°	1120	1120	1109
75°	1081	1076	1072
80°	1032	1024	1017
85°	969	957	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	3.3
10°-20°	136.5	9.4
20°-30°	205.7	14.2
30°-40°	246.5	17.0
40°-50°	254.9	17.6
50°-60°	231.1	16.0
60°-70°	179.6	12.4
70°-80°	109.7	7.6
80°-90°	34.3	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°	390.0	27.0
0°-40°	636.4	44.0
0°-60°	1122.4	77.6
0°-90°	1446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	506	506	506	506	506	
5°	504	504	502	504	504	48
15°	484	484	482	484	484	137
25°	446	446	445	448	448	205
35°	393	393	393	395	395	246
45°	330	330	330	331	331	254
55°	258	258	259	259	258	230
65°	182	182	182	181	183	179
75°	104	104	104	103	103	110
85°	31	30	31	30	30	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	505.7	505.7	505.7	505.7	505.7
2.5°	506.2	505.7	503.4	505.7	506.2
5°	504.3	503.8	501.5	503.8	504.3
7.5°	501.1	501.1	498.8	501.1	501.1
10°	496.9	496.5	494.1	496.5	496.9
12.5°	490.9	490.9	488.6	490.9	491.4
15°	484.0	484.0	482.1	484.4	484.4
17.5°	476.1	476.6	474.3	477.0	477.0
20°	467.3	466.9	465.5	467.8	468.3
22.5°	456.7	457.2	455.8	458.5	459.0
25°	446.1	446.1	445.1	447.9	447.5
27.5°	434.5	434.5	433.1	435.4	435.9
30°	420.6	421.1	420.6	423.0	422.5
32.5°	407.7	408.2	408.2	409.1	409.5
35°	392.9	393.4	393.4	395.2	395.2
37.5°	378.1	378.1	378.6	380.0	380.0
40°	362.4	362.9	362.9	364.2	364.7
42.5°	347.1	346.2	346.7	348.1	348.1
45°	329.6	330.0	330.5	331.0	331.0
47.5°	312.0	312.9	313.4	313.9	313.4
50°	294.4	295.4	295.4	294.9	294.9
52.5°	275.5	277.8	277.3	277.3	278.3
55°	257.5	258.4	258.9	258.9	258.4
57.5°	239.4	240.4	239.4	239.9	239.0
60°	220.0	220.5	220.0	220.0	220.0
62.5°	201.1	201.5	200.6	200.6	200.6
65°	181.7	181.7	181.7	180.7	182.6
67.5°	161.3	162.2	162.2	162.7	160.9
70°	142.4	142.8	142.4	141.9	141.0
72.5°	123.4	123.9	124.3	122.5	122.0
75°	104.0	104.0	103.5	103.1	103.1
77.5°	85.1	85.1	85.1	84.1	84.1
80°	66.6	67.0	66.1	66.1	65.6
82.5°	48.5	48.5	48.5	48.1	47.1
85°	31.4	30.5	31.0	30.0	30.0
87.5°	14.3	14.3	14.3	13.4	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)