

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: P291637

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291637
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1447.0 lumens
Efficiency: N/A
Efficacy: 91.0 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

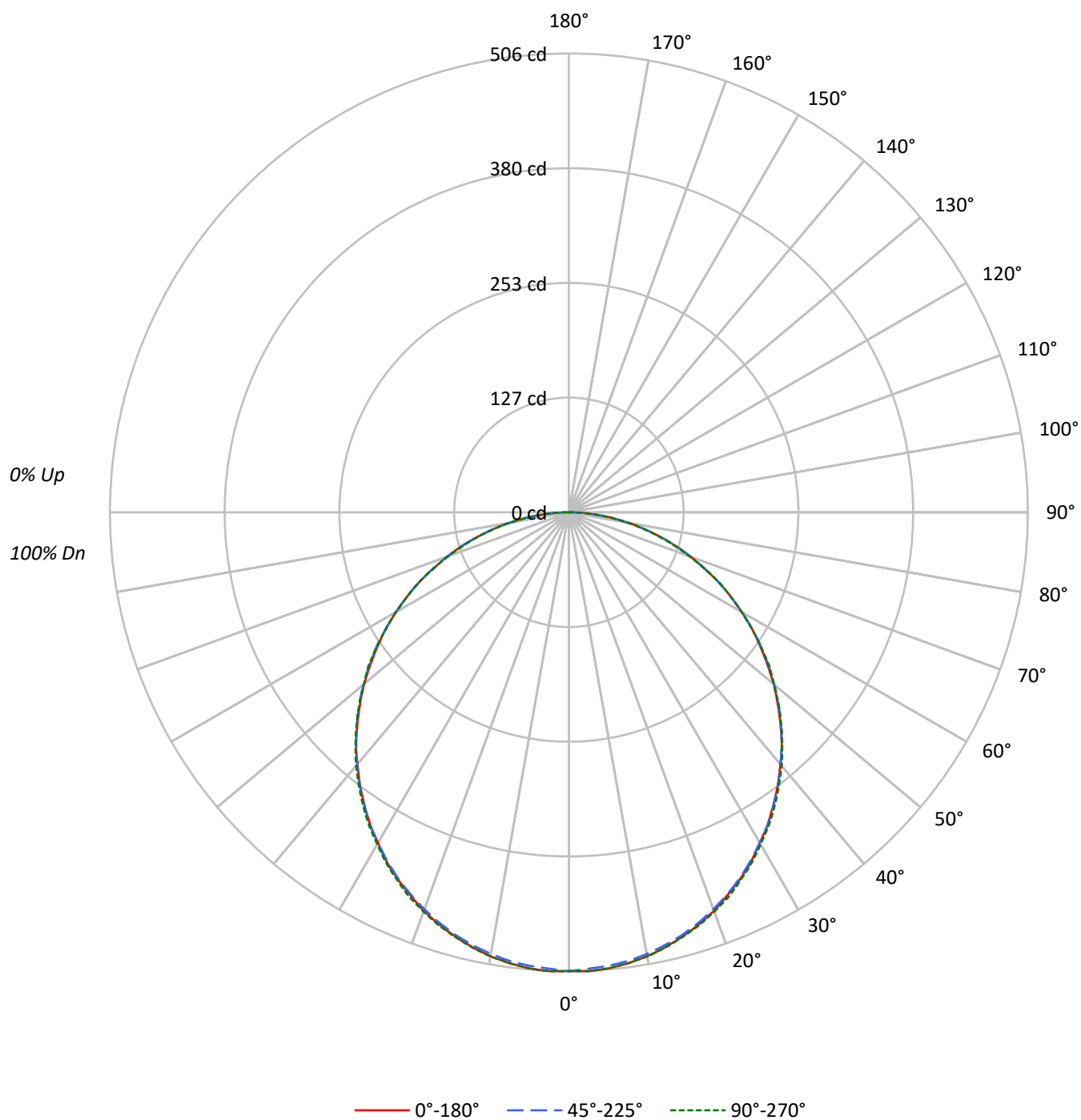
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1362	1362	1362
5°	1363	1356	1363
10°	1359	1351	1359
15°	1349	1344	1351
20°	1339	1334	1342
25°	1325	1322	1330
30°	1308	1308	1314
35°	1292	1293	1299
40°	1274	1276	1282
45°	1255	1259	1260
50°	1234	1238	1235
55°	1209	1215	1213
60°	1185	1185	1185
65°	1158	1158	1163
70°	1121	1121	1110
75°	1082	1077	1073
80°	1032	1024	1018
85°	973	957	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	3.3
10°-20°	136.6	9.4
20°-30°	205.8	14.2
30°-40°	246.6	17.0
40°-50°	255.0	17.6
50°-60°	231.2	16.0
60°-70°	179.7	12.4
70°-80°	109.8	7.6
80°-90°	34.4	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°	390.2	27.0
0°-40°	636.9	44.0
0°-60°	1123.1	77.6
0°-90°	1447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	506	506	506	506	506	
5°	505	504	502	504	505	48
15°	484	484	482	485	485	137
25°	446	446	445	448	448	206
35°	393	394	394	396	396	246
45°	330	330	331	331	331	254
55°	258	259	259	259	259	230
65°	182	182	182	181	183	180
75°	104	104	104	103	103	110
85°	32	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°	506.0	506.0	506.0	506.0	506.0
2.5°	506.5	506.0	503.7	506.0	506.5
5°	504.7	504.2	501.9	504.2	504.7
7.5°	501.4	501.4	499.1	501.4	501.4
10°	497.3	496.8	494.5	496.8	497.3
12.5°	491.2	491.2	488.9	491.2	491.7
15°	484.3	484.3	482.5	484.8	484.8
17.5°	476.4	476.9	474.6	477.4	477.4
20°	467.7	467.2	465.8	468.1	468.6
22.5°	457.0	457.5	456.1	458.9	459.3
25°	446.4	446.4	445.4	448.2	447.8
27.5°	434.8	434.8	433.4	435.7	436.2
30°	420.9	421.4	420.9	423.2	422.8
32.5°	408.0	408.4	408.4	409.4	409.8
35°	393.2	393.6	393.6	395.5	395.5
37.5°	378.4	378.4	378.8	380.2	380.2
40°	362.7	363.1	363.1	364.5	365.0
42.5°	347.4	346.5	346.9	348.3	348.3
45°	329.8	330.3	330.7	331.2	331.2
47.5°	312.2	313.2	313.6	314.1	313.6
50°	294.7	295.6	295.6	295.1	295.1
52.5°	275.7	278.0	277.5	277.5	278.5
55°	257.6	258.6	259.0	259.0	258.6
57.5°	239.6	240.5	239.6	240.1	239.1
60°	220.2	220.6	220.2	220.2	220.2
62.5°	201.2	201.7	200.8	200.8	200.8
65°	181.8	181.8	181.8	180.9	182.7
67.5°	161.4	162.4	162.4	162.8	161.0
70°	142.5	142.9	142.5	142.0	141.1
72.5°	123.5	124.0	124.4	122.6	122.1
75°	104.1	104.1	103.6	103.2	103.2
77.5°	85.1	85.1	85.1	84.2	84.2
80°	66.6	67.1	66.1	66.1	65.7
82.5°	48.6	48.6	48.6	48.1	47.2
85°	31.5	30.5	31.0	30.1	30.1
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)