

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: P291676

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291676
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-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1480.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

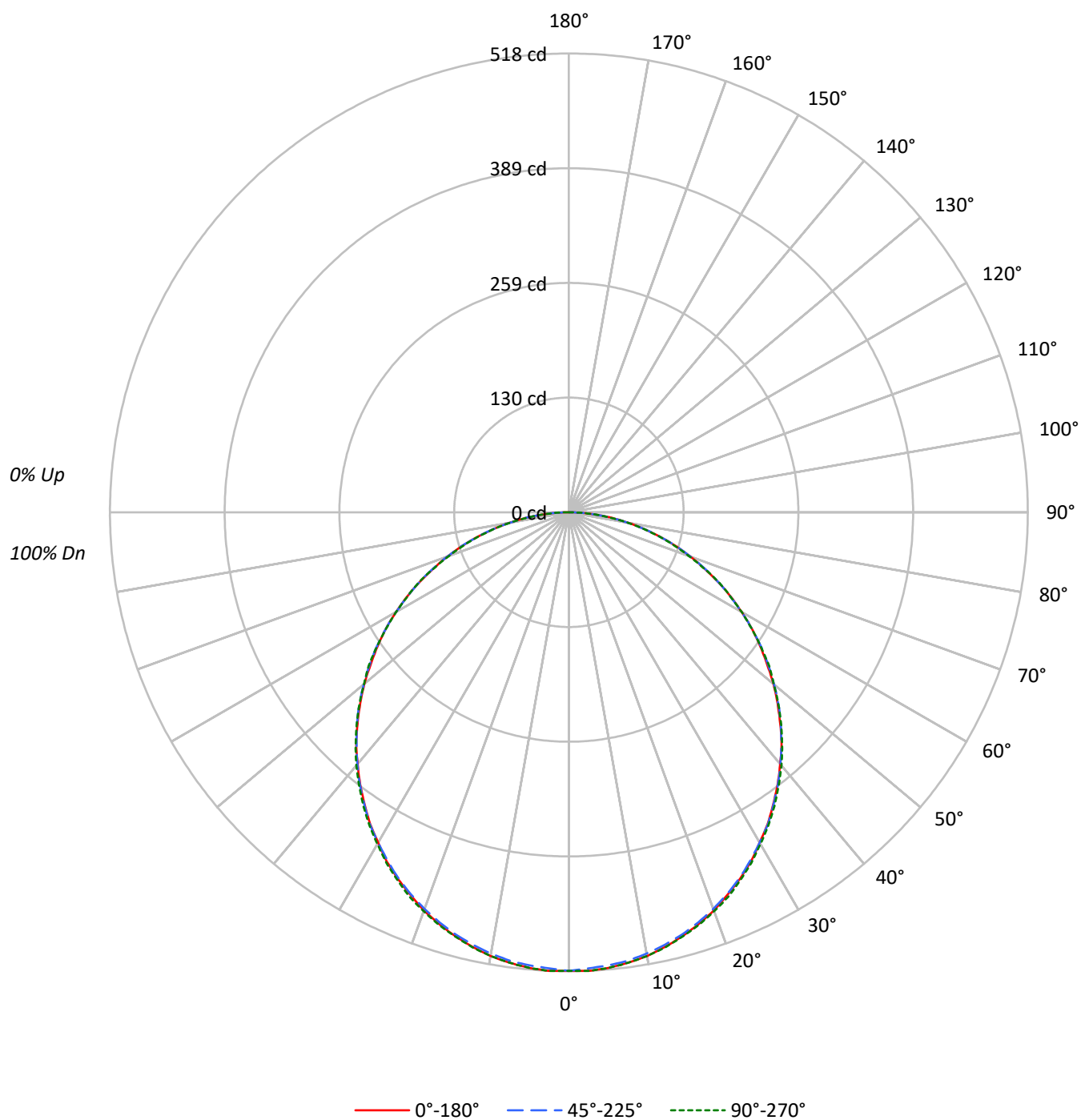
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1393	1393	1393
5°	1394	1387	1394
10°	1390	1382	1390
15°	1380	1375	1381
20°	1370	1364	1373
25°	1356	1353	1360
30°	1338	1338	1344
35°	1321	1323	1329
40°	1303	1305	1311
45°	1284	1287	1289
50°	1262	1266	1263
55°	1236	1243	1241
60°	1212	1212	1212
65°	1184	1184	1190
70°	1146	1146	1135
75°	1107	1102	1097
80°	1055	1049	1041
85°	994	979	951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	3.3
10°-20°	139.7	9.4
20°-30°	210.5	14.2
30°-40°	252.3	17.0
40°-50°	260.8	17.6
50°-60°	236.5	16.0
60°-70°	183.8	12.4
70°-80°	112.3	7.6
80°-90°	35.2	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°	399.1	27.0
0°-40°	651.4	44.0
0°-60°	1148.8	77.6
0°-90°	1480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	518	518	518	518	518	
5°	516	516	513	516	516	49
15°	495	495	494	496	496	140
25°	457	457	456	458	458	210
35°	402	403	403	404	404	252
45°	337	338	338	339	339	260
55°	264	264	265	265	264	236
65°	186	186	186	185	187	184
75°	106	106	106	106	106	113
85°	32	31	32	31	31	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	517.6	517.6	517.6	517.6	517.6
2.5°	518.1	517.6	515.2	517.6	518.1
5°	516.2	515.7	513.3	515.7	516.2
7.5°	512.9	512.9	510.5	512.9	512.9
10°	508.6	508.1	505.8	508.1	508.6
12.5°	502.4	502.4	500.1	502.4	502.9
15°	495.3	495.3	493.5	495.8	495.8
17.5°	487.3	487.8	485.4	488.3	488.3
20°	478.3	477.8	476.4	478.8	479.3
22.5°	467.4	467.9	466.5	469.3	469.8
25°	456.6	456.6	455.6	458.4	458.0
27.5°	444.7	444.7	443.3	445.7	446.1
30°	430.5	431.0	430.5	432.9	432.4
32.5°	417.3	417.8	417.8	418.7	419.2
35°	402.1	402.6	402.6	404.5	404.5
37.5°	387.0	387.0	387.5	388.9	388.9
40°	370.9	371.4	371.4	372.8	373.3
42.5°	355.3	354.4	354.8	356.3	356.3
45°	337.3	337.8	338.3	338.7	338.7
47.5°	319.4	320.3	320.8	321.2	320.8
50°	301.4	302.3	302.3	301.8	301.8
52.5°	282.0	284.3	283.9	283.9	284.8
55°	263.5	264.5	264.9	264.9	264.5
57.5°	245.1	246.0	245.1	245.5	244.6
60°	225.2	225.7	225.2	225.2	225.2
62.5°	205.8	206.3	205.3	205.3	205.3
65°	185.9	185.9	185.9	185.0	186.9
67.5°	165.1	166.1	166.1	166.5	164.6
70°	145.7	146.2	145.7	145.2	144.3
72.5°	126.3	126.8	127.3	125.4	124.9
75°	106.5	106.5	106.0	105.5	105.5
77.5°	87.1	87.1	87.1	86.1	86.1
80°	68.1	68.6	67.7	67.7	67.2
82.5°	49.7	49.7	49.7	49.2	48.3
85°	32.2	31.2	31.7	30.8	30.8
87.5°	14.7	14.7	14.7	13.7	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)