

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: P291638

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291638
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1472.0 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

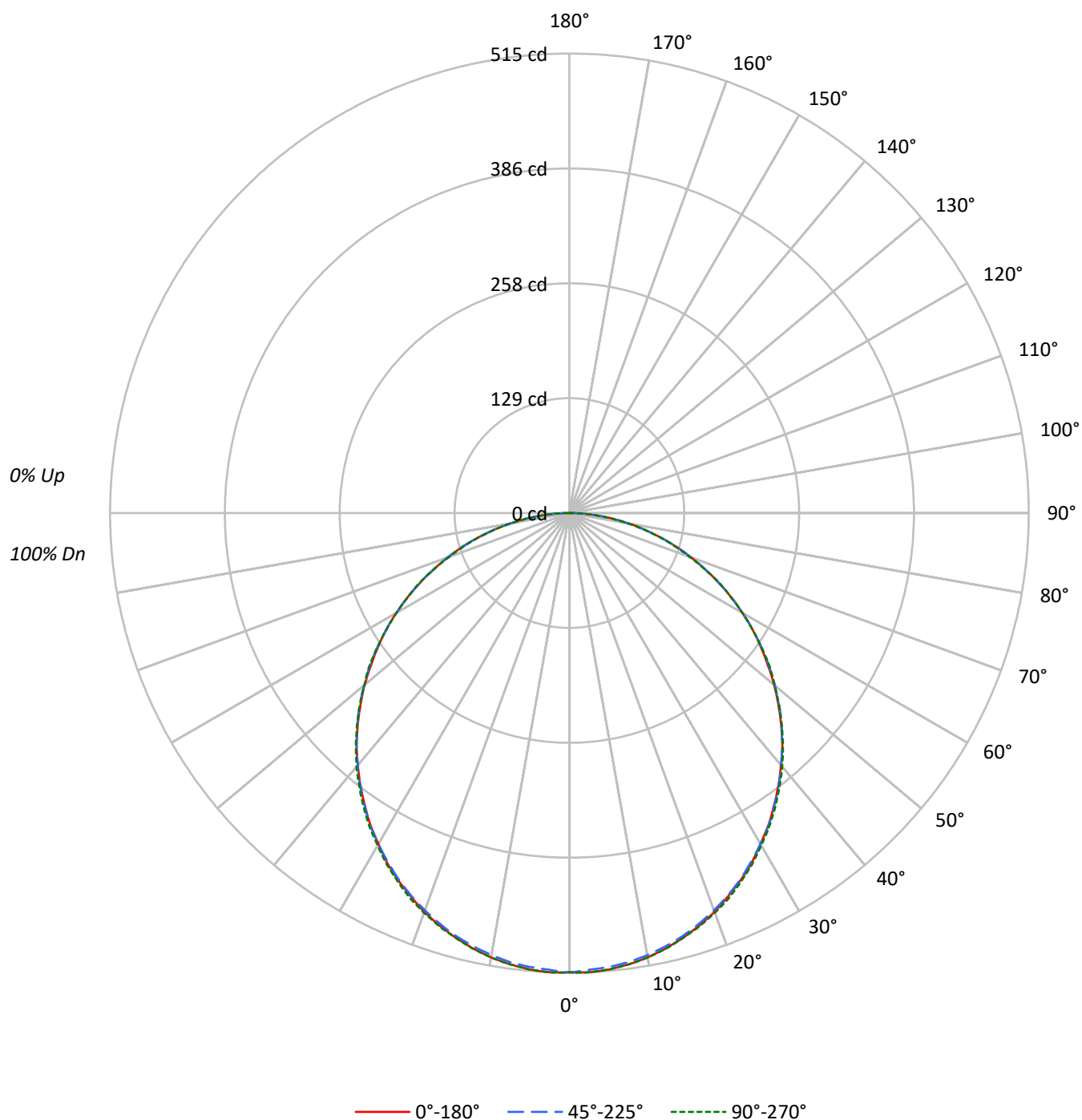
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1385	1385	1385
5°	1387	1379	1387
10°	1382	1374	1382
15°	1373	1367	1374
20°	1362	1357	1365
25°	1348	1345	1352
30°	1331	1331	1336
35°	1314	1315	1322
40°	1296	1298	1304
45°	1277	1280	1282
50°	1255	1259	1257
55°	1230	1236	1234
60°	1206	1206	1206
65°	1177	1177	1184
70°	1140	1140	1129
75°	1101	1096	1091
80°	1051	1043	1035
85°	988	973	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	3.3
10°-20°	138.9	9.4
20°-30°	209.4	14.2
30°-40°	250.9	17.0
40°-50°	259.4	17.6
50°-60°	235.2	16.0
60°-70°	182.8	12.4
70°-80°	111.7	7.6
80°-90°	34.9	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°	397.0	27.0
0°-40°	647.9	44.0
0°-60°	1142.5	77.6
0°-90°	1472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	515	515	515	515	515	
5°	513	513	511	513	513	49
15°	493	493	491	493	493	139
25°	454	454	453	456	456	209
35°	400	400	400	402	402	250
45°	336	336	336	337	337	259
55°	262	263	264	264	263	234
65°	185	185	185	184	186	183
75°	106	106	105	105	105	112
85°	32	31	32	31	31	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	514.8	514.8	514.8	514.8	514.8
2.5°	515.3	514.8	512.4	514.8	515.3
5°	513.4	512.9	510.6	512.9	513.4
7.5°	510.1	510.1	507.7	510.1	510.1
10°	505.8	505.4	503.0	505.4	505.8
12.5°	499.7	499.7	497.4	499.7	500.2
15°	492.7	492.7	490.8	493.1	493.1
17.5°	484.7	485.1	482.8	485.6	485.6
20°	475.7	475.3	473.8	476.2	476.7
22.5°	464.9	465.4	464.0	466.8	467.3
25°	454.1	454.1	453.1	456.0	455.5
27.5°	442.3	442.3	440.9	443.3	443.7
30°	428.2	428.7	428.2	430.6	430.1
32.5°	415.0	415.5	415.5	416.4	416.9
35°	400.0	400.4	400.4	402.3	402.3
37.5°	384.9	384.9	385.4	386.8	386.8
40°	368.9	369.4	369.4	370.8	371.3
42.5°	353.4	352.4	352.9	354.3	354.3
45°	335.5	336.0	336.4	336.9	336.9
47.5°	317.6	318.6	319.0	319.5	319.0
50°	299.7	300.7	300.7	300.2	300.2
52.5°	280.5	282.8	282.3	282.3	283.3
55°	262.1	263.0	263.5	263.5	263.0
57.5°	243.7	244.7	243.7	244.2	243.3
60°	224.0	224.5	224.0	224.0	224.0
62.5°	204.7	205.2	204.2	204.2	204.2
65°	184.9	184.9	184.9	184.0	185.9
67.5°	164.2	165.2	165.2	165.6	163.8
70°	144.9	145.4	144.9	144.5	143.5
72.5°	125.6	126.1	126.6	124.7	124.2
75°	105.9	105.9	105.4	104.9	104.9
77.5°	86.6	86.6	86.6	85.6	85.6
80°	67.8	68.2	67.3	67.3	66.8
82.5°	49.4	49.4	49.4	48.9	48.0
85°	32.0	31.1	31.5	30.6	30.6
87.5°	14.6	14.6	14.6	13.6	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)