

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: P291539

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291539
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-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: 1655.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

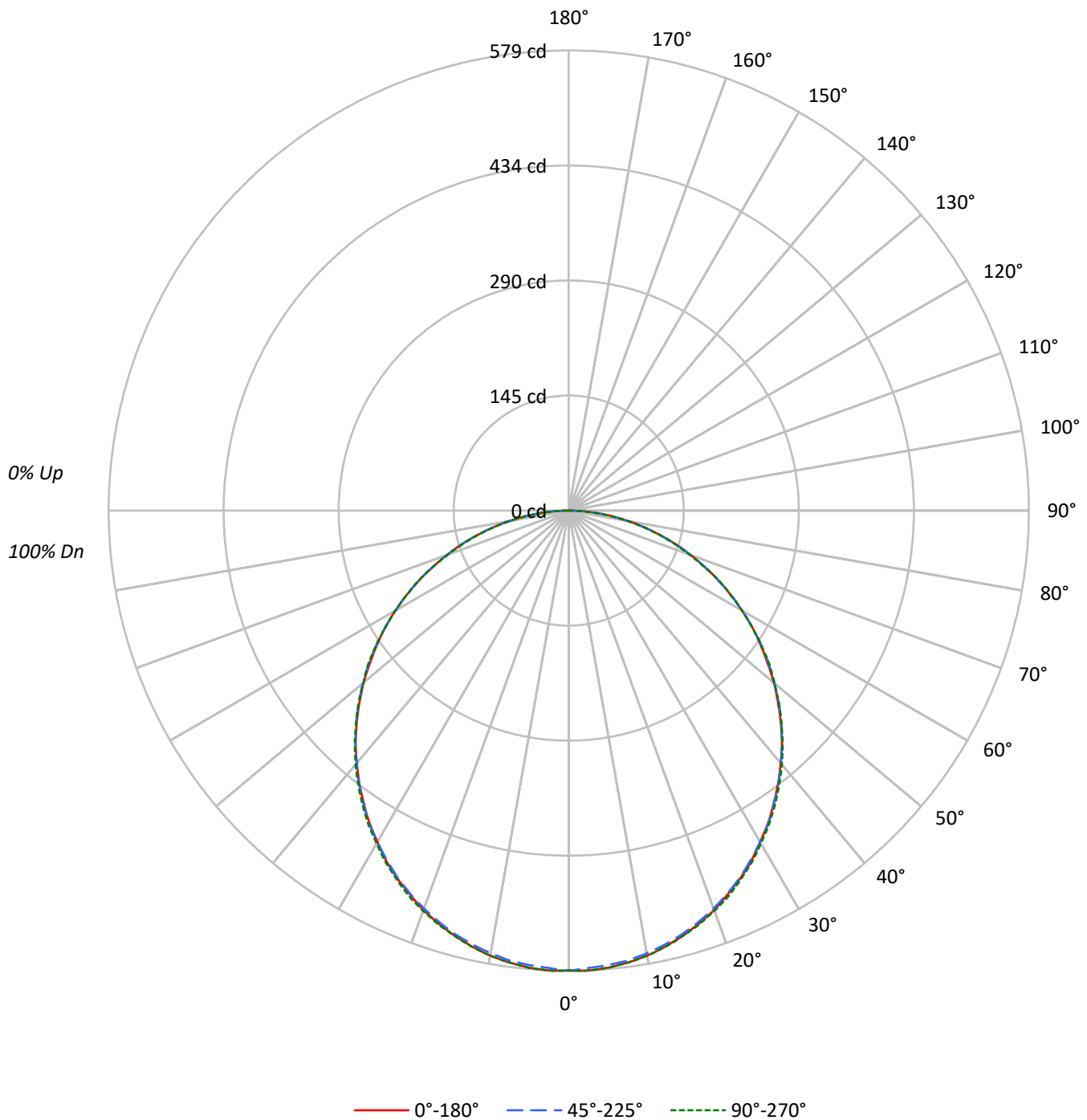
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	1558	1558	1558
5°	1559	1551	1559
10°	1554	1545	1554
15°	1543	1537	1545
20°	1532	1526	1535
25°	1516	1513	1521
30°	1496	1496	1503
35°	1477	1479	1486
40°	1457	1459	1466
45°	1435	1440	1442
50°	1411	1415	1413
55°	1383	1390	1387
60°	1355	1355	1355
65°	1324	1324	1331
70°	1282	1282	1270
75°	1237	1232	1227
80°	1181	1173	1164
85°	1112	1093	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	3.3
10°-20°	156.2	9.4
20°-30°	235.4	14.2
30°-40°	282.1	17.0
40°-50°	291.7	17.6
50°-60°	264.5	16.0
60°-70°	205.5	12.4
70°-80°	125.5	7.6
80°-90°	39.3	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°	446.3	27.0
0°-40°	728.4	44.0
0°-60°	1284.6	77.6
0°-90°	1655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	577	577	574	577	577	55
15°	554	554	552	554	554	156
25°	510	510	510	513	512	235
35°	450	450	450	452	452	281
45°	377	378	378	379	379	291
55°	295	296	296	296	296	264
65°	208	208	208	207	209	205
75°	119	119	118	118	118	126
85°	36	35	35	34	34	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	578.8	578.8	578.8	578.8	578.8
2.5°	579.3	578.8	576.1	578.8	579.3
5°	577.2	576.7	574.0	576.7	577.2
7.5°	573.5	573.5	570.9	573.5	573.5
10°	568.7	568.2	565.6	568.2	568.7
12.5°	561.9	561.9	559.2	561.9	562.4
15°	553.9	553.9	551.8	554.4	554.4
17.5°	544.9	545.5	542.8	546.0	546.0
20°	534.9	534.3	532.8	535.4	535.9
22.5°	522.7	523.2	521.6	524.8	525.4
25°	510.5	510.5	509.5	512.7	512.1
27.5°	497.3	497.3	495.7	498.4	498.9
30°	481.4	482.0	481.4	484.1	483.6
32.5°	466.6	467.2	467.2	468.2	468.7
35°	449.7	450.2	450.2	452.3	452.3
37.5°	432.8	432.8	433.3	434.9	434.9
40°	414.8	415.3	415.3	416.9	417.4
42.5°	397.3	396.3	396.8	398.4	398.4
45°	377.2	377.7	378.3	378.8	378.8
47.5°	357.1	358.2	358.7	359.2	358.7
50°	337.0	338.1	338.1	337.5	337.5
52.5°	315.3	318.0	317.4	317.4	318.5
55°	294.7	295.7	296.3	296.3	295.7
57.5°	274.1	275.1	274.1	274.6	273.5
60°	251.8	252.4	251.8	251.8	251.8
62.5°	230.1	230.7	229.6	229.6	229.6
65°	207.9	207.9	207.9	206.9	209.0
67.5°	184.6	185.7	185.7	186.2	184.1
70°	162.9	163.5	162.9	162.4	161.4
72.5°	141.3	141.8	142.3	140.2	139.7
75°	119.0	119.0	118.5	118.0	118.0
77.5°	97.3	97.3	97.3	96.3	96.3
80°	76.2	76.7	75.7	75.7	75.1
82.5°	55.6	55.6	55.6	55.0	54.0
85°	36.0	34.9	35.4	34.4	34.4
87.5°	16.4	16.4	16.4	15.3	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)