

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: P291674

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291674
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-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: 1428.0 lumens
Efficiency: N/A
Efficacy: 90.3 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

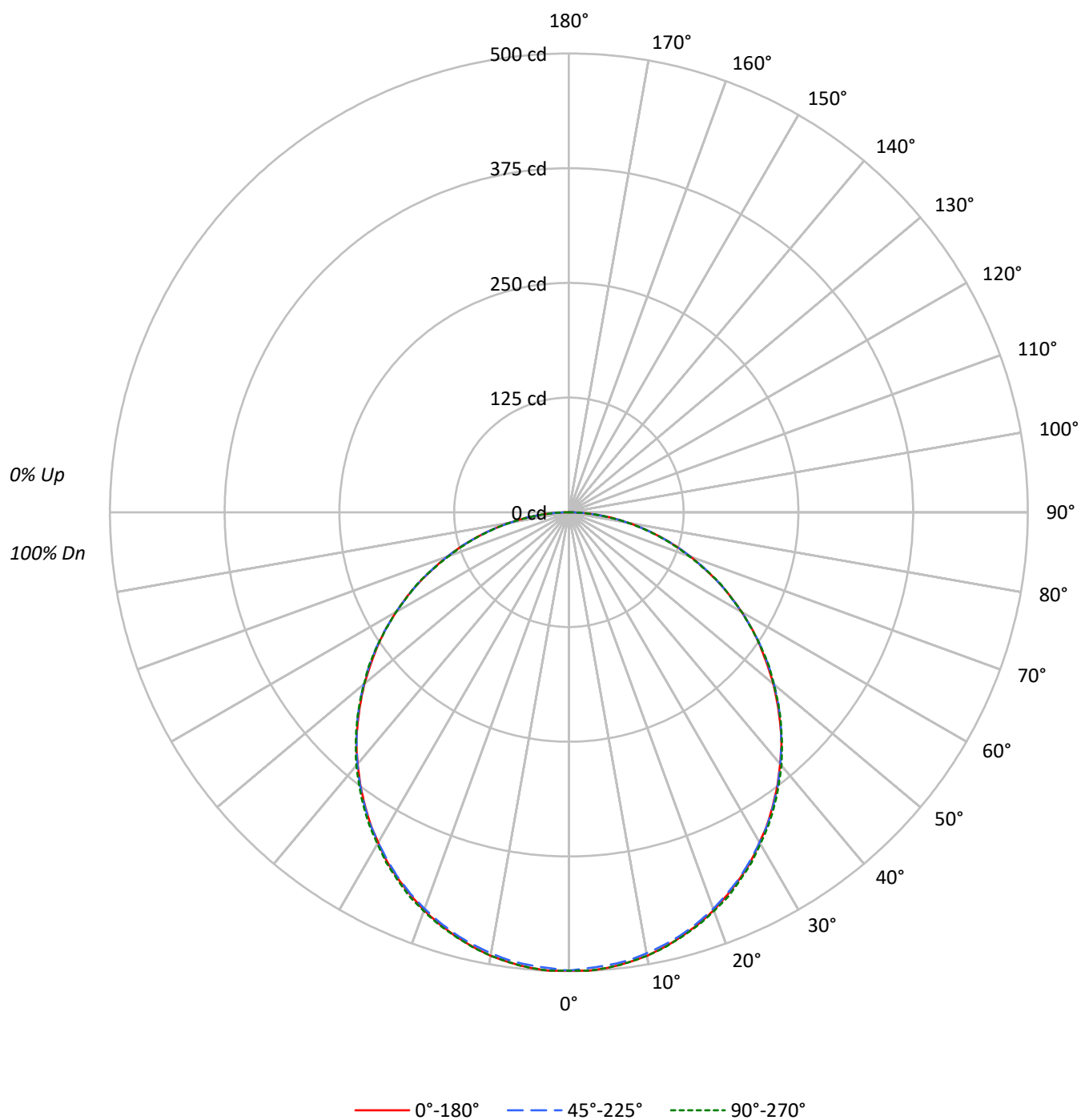
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1344	1344	1344
5°	1345	1338	1345
10°	1341	1333	1341
15°	1331	1326	1333
20°	1322	1316	1324
25°	1308	1305	1312
30°	1291	1291	1296
35°	1275	1276	1282
40°	1257	1259	1265
45°	1239	1242	1244
50°	1217	1221	1219
55°	1193	1199	1197
60°	1169	1169	1169
65°	1142	1142	1148
70°	1106	1106	1095
75°	1068	1064	1058
80°	1018	1012	1004
85°	957	945	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	3.3
10°-20°	134.8	9.4
20°-30°	203.1	14.2
30°-40°	243.4	17.0
40°-50°	251.7	17.6
50°-60°	228.2	16.0
60°-70°	177.4	12.4
70°-80°	108.3	7.6
80°-90°	33.9	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°	385.1	27.0
0°-40°	628.5	44.0
0°-60°	1108.4	77.6
0°-90°	1428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	499	499	499	499	499	
5°	498	498	495	498	498	47
15°	478	478	476	478	478	135
25°	440	440	440	442	442	203
35°	388	388	388	390	390	243
45°	326	326	326	327	327	251
55°	254	255	256	256	255	227
65°	179	179	179	178	180	177
75°	103	103	102	102	102	109
85°	31	30	31	30	30	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	499.4	499.4	499.4	499.4	499.4
2.5°	499.9	499.4	497.1	499.4	499.9
5°	498.0	497.6	495.3	497.6	498.0
7.5°	494.8	494.8	492.6	494.8	494.8
10°	490.7	490.3	488.0	490.3	490.7
12.5°	484.8	484.8	482.5	484.8	485.2
15°	477.9	477.9	476.1	478.4	478.4
17.5°	470.2	470.6	468.4	471.1	471.1
20°	461.5	461.1	459.7	462.0	462.4
22.5°	451.0	451.5	450.1	452.8	453.3
25°	440.5	440.5	439.6	442.3	441.9
27.5°	429.1	429.1	427.7	430.0	430.5
30°	415.4	415.9	415.4	417.7	417.2
32.5°	402.6	403.1	403.1	404.0	404.5
35°	388.0	388.5	388.5	390.3	390.3
37.5°	373.4	373.4	373.9	375.2	375.2
40°	357.9	358.3	358.3	359.7	360.2
42.5°	342.8	341.9	342.4	343.7	343.7
45°	325.5	325.9	326.4	326.8	326.8
47.5°	308.1	309.0	309.5	310.0	309.5
50°	290.8	291.7	291.7	291.2	291.2
52.5°	272.1	274.4	273.9	273.9	274.8
55°	254.3	255.2	255.6	255.6	255.2
57.5°	236.5	237.4	236.5	236.9	236.0
60°	217.3	217.7	217.3	217.3	217.3
62.5°	198.6	199.0	198.1	198.1	198.1
65°	179.4	179.4	179.4	178.5	180.3
67.5°	159.3	160.2	160.2	160.7	158.9
70°	140.6	141.1	140.6	140.1	139.2
72.5°	121.9	122.3	122.8	121.0	120.5
75°	102.7	102.7	102.3	101.8	101.8
77.5°	84.0	84.0	84.0	83.1	83.1
80°	65.7	66.2	65.3	65.3	64.8
82.5°	47.9	47.9	47.9	47.5	46.6
85°	31.0	30.1	30.6	29.7	29.7
87.5°	14.2	14.2	14.2	13.2	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)