

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: P291575

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291575
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-L82765-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: 1573.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

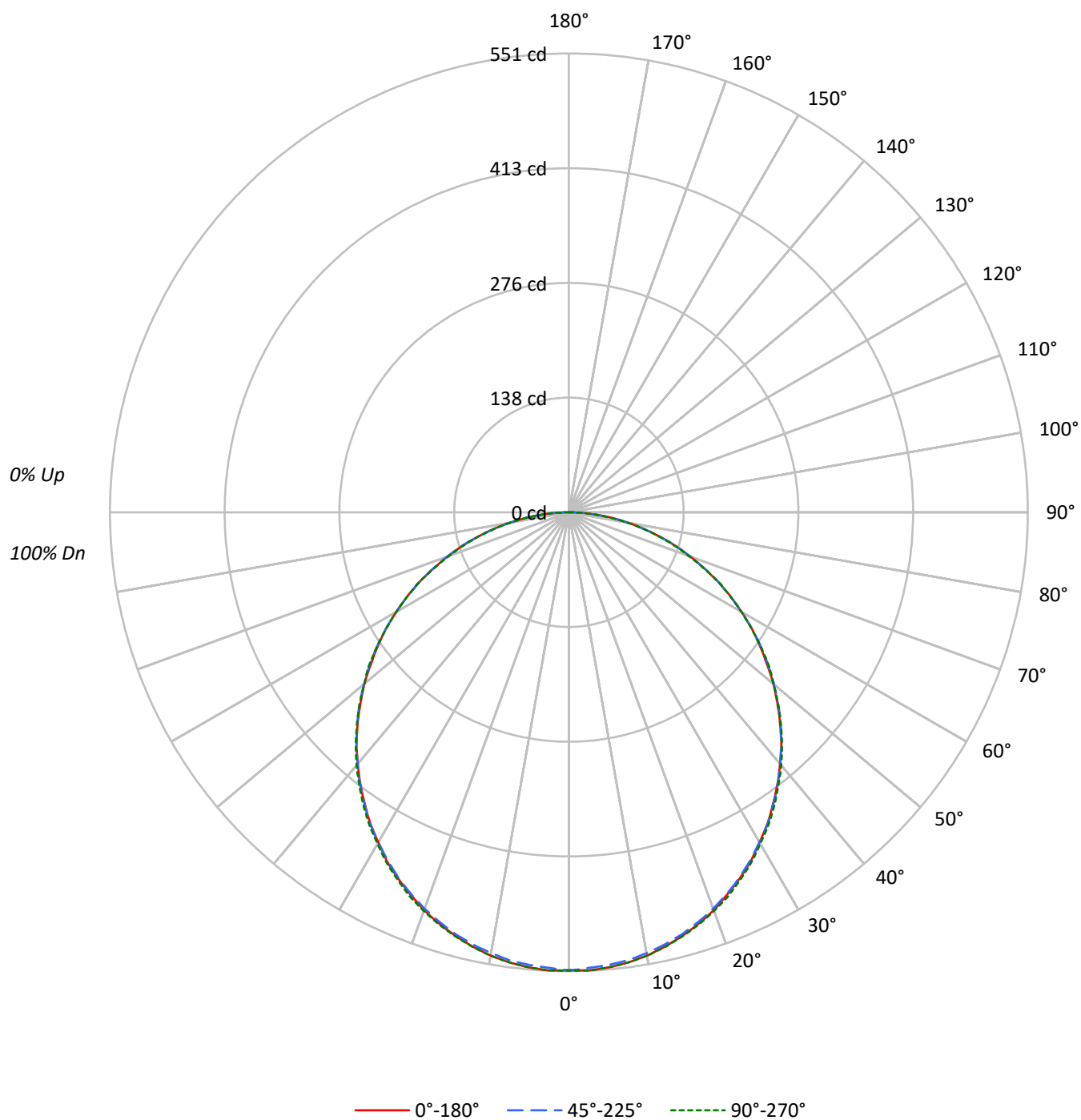
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1480	1480	1480
5°	1482	1474	1482
10°	1477	1469	1477
15°	1467	1461	1468
20°	1456	1450	1459
25°	1441	1438	1445
30°	1422	1422	1428
35°	1404	1406	1412
40°	1385	1387	1394
45°	1364	1368	1370
50°	1341	1345	1343
55°	1314	1321	1319
60°	1288	1288	1288
65°	1258	1258	1265
70°	1219	1219	1207
75°	1176	1171	1166
80°	1122	1114	1106
85°	1056	1041	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	3.3
10°-20°	148.5	9.4
20°-30°	223.7	14.2
30°-40°	268.1	17.0
40°-50°	277.2	17.6
50°-60°	251.4	16.0
60°-70°	195.4	12.4
70°-80°	119.3	7.6
80°-90°	37.4	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°	424.2	27.0
0°-40°	692.3	44.0
0°-60°	1220.9	77.6
0°-90°	1573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	550	550	550	550	550	
5°	549	548	546	548	549	52
15°	526	526	524	527	527	149
25°	485	485	484	487	487	224
35°	427	428	428	430	430	267
45°	358	359	360	360	360	277
55°	280	281	282	282	281	251
65°	198	198	198	197	199	195
75°	113	113	113	112	112	120
85°	34	33	34	33	33	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	550.1	550.1	550.1	550.1	550.1
2.5°	550.6	550.1	547.6	550.1	550.6
5°	548.6	548.1	545.6	548.1	548.6
7.5°	545.1	545.1	542.6	545.1	545.1
10°	540.6	540.1	537.5	540.1	540.6
12.5°	534.0	534.0	531.5	534.0	534.5
15°	526.5	526.5	524.5	527.0	527.0
17.5°	517.9	518.4	515.9	518.9	518.9
20°	508.4	507.9	506.4	508.9	509.4
22.5°	496.8	497.3	495.8	498.8	499.3
25°	485.2	485.2	484.2	487.3	486.8
27.5°	472.7	472.7	471.2	473.7	474.2
30°	457.6	458.1	457.6	460.1	459.6
32.5°	443.5	444.0	444.0	445.0	445.5
35°	427.4	427.9	427.9	429.9	429.9
37.5°	411.3	411.3	411.8	413.3	413.3
40°	394.2	394.7	394.7	396.2	396.7
42.5°	377.6	376.6	377.1	378.6	378.6
45°	358.5	359.0	359.5	360.0	360.0
47.5°	339.4	340.4	340.9	341.4	340.9
50°	320.3	321.3	321.3	320.8	320.8
52.5°	299.7	302.2	301.7	301.7	302.7
55°	280.1	281.1	281.6	281.6	281.1
57.5°	260.5	261.5	260.5	261.0	260.0
60°	239.4	239.9	239.4	239.4	239.4
62.5°	218.7	219.2	218.2	218.2	218.2
65°	197.6	197.6	197.6	196.6	198.6
67.5°	175.5	176.5	176.5	177.0	175.0
70°	154.9	155.4	154.9	154.4	153.4
72.5°	134.3	134.8	135.3	133.3	132.8
75°	113.1	113.1	112.6	112.1	112.1
77.5°	92.5	92.5	92.5	91.5	91.5
80°	72.4	72.9	71.9	71.9	71.4
82.5°	52.8	52.8	52.8	52.3	51.3
85°	34.2	33.2	33.7	32.7	32.7
87.5°	15.6	15.6	15.6	14.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)