

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: P291690

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291690
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-LD5-28-FGW080-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1885.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

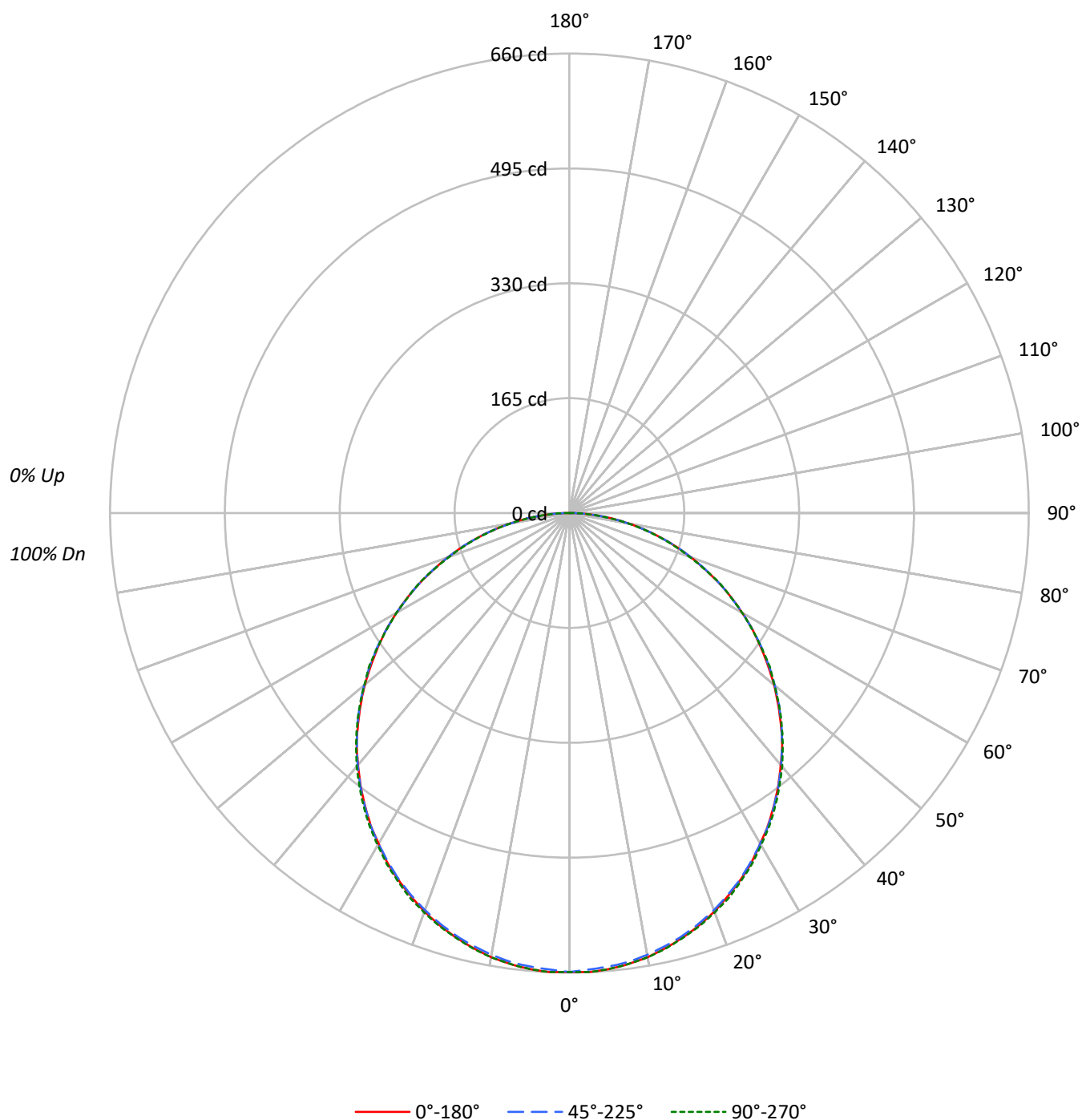
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1774	1774	1774
5°	1776	1766	1776
10°	1770	1760	1770
15°	1758	1751	1759
20°	1745	1738	1748
25°	1727	1723	1732
30°	1704	1704	1711
35°	1683	1685	1692
40°	1659	1662	1670
45°	1635	1639	1642
50°	1607	1612	1609
55°	1574	1583	1580
60°	1544	1544	1544
65°	1508	1508	1515
70°	1460	1460	1446
75°	1410	1404	1397
80°	1345	1336	1327
85°	1266	1247	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	3.3
10°-20°	177.9	9.4
20°-30°	268.1	14.2
30°-40°	321.3	17.0
40°-50°	332.2	17.6
50°-60°	301.2	16.0
60°-70°	234.1	12.4
70°-80°	143.0	7.6
80°-90°	44.8	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°	508.4	27.0
0°-40°	829.6	44.0
0°-60°	1463.1	77.6
0°-90°	1885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	657	657	654	657	657	62
15°	631	631	628	632	632	178
25°	582	582	580	584	583	268
35°	512	513	513	515	515	321
45°	430	430	431	431	431	331
55°	336	337	337	337	337	300
65°	237	237	237	236	238	234
75°	136	136	135	134	134	143
85°	41	40	40	39	39	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	659.2	659.2	659.2	659.2	659.2
2.5°	659.8	659.2	656.2	659.2	659.8
5°	657.4	656.8	653.8	656.8	657.4
7.5°	653.2	653.2	650.2	653.2	653.2
10°	647.8	647.2	644.2	647.2	647.8
12.5°	639.9	639.9	636.9	639.9	640.5
15°	630.9	630.9	628.5	631.5	631.5
17.5°	620.7	621.3	618.2	621.9	621.9
20°	609.2	608.6	606.8	609.8	610.4
22.5°	595.3	596.0	594.1	597.8	598.4
25°	581.5	581.5	580.3	583.9	583.3
27.5°	566.4	566.4	564.6	567.6	568.2
30°	548.3	549.0	548.3	551.4	550.8
32.5°	531.5	532.1	532.1	533.3	533.9
35°	512.2	512.8	512.8	515.2	515.2
37.5°	492.9	492.9	493.5	495.3	495.3
40°	472.4	473.0	473.0	474.8	475.4
42.5°	452.5	451.3	451.9	453.7	453.7
45°	429.6	430.2	430.8	431.4	431.4
47.5°	406.7	407.9	408.5	409.2	408.5
50°	383.8	385.0	385.0	384.4	384.4
52.5°	359.1	362.2	361.5	361.5	362.8
55°	335.6	336.8	337.4	337.4	336.8
57.5°	312.1	313.3	312.1	312.7	311.5
60°	286.8	287.4	286.8	286.8	286.8
62.5°	262.1	262.7	261.5	261.5	261.5
65°	236.8	236.8	236.8	235.6	238.0
67.5°	210.3	211.5	211.5	212.1	209.7
70°	185.6	186.2	185.6	185.0	183.8
72.5°	160.9	161.5	162.1	159.7	159.1
75°	135.6	135.6	135.0	134.4	134.4
77.5°	110.9	110.9	110.9	109.7	109.7
80°	86.8	87.4	86.2	86.2	85.6
82.5°	63.3	63.3	63.3	62.7	61.5
85°	41.0	39.8	40.4	39.2	39.2
87.5°	18.7	18.7	18.7	17.5	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)