

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: P291594

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291594
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-L82765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2238.0 lumens
Efficiency: N/A
Efficacy: 99.0 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

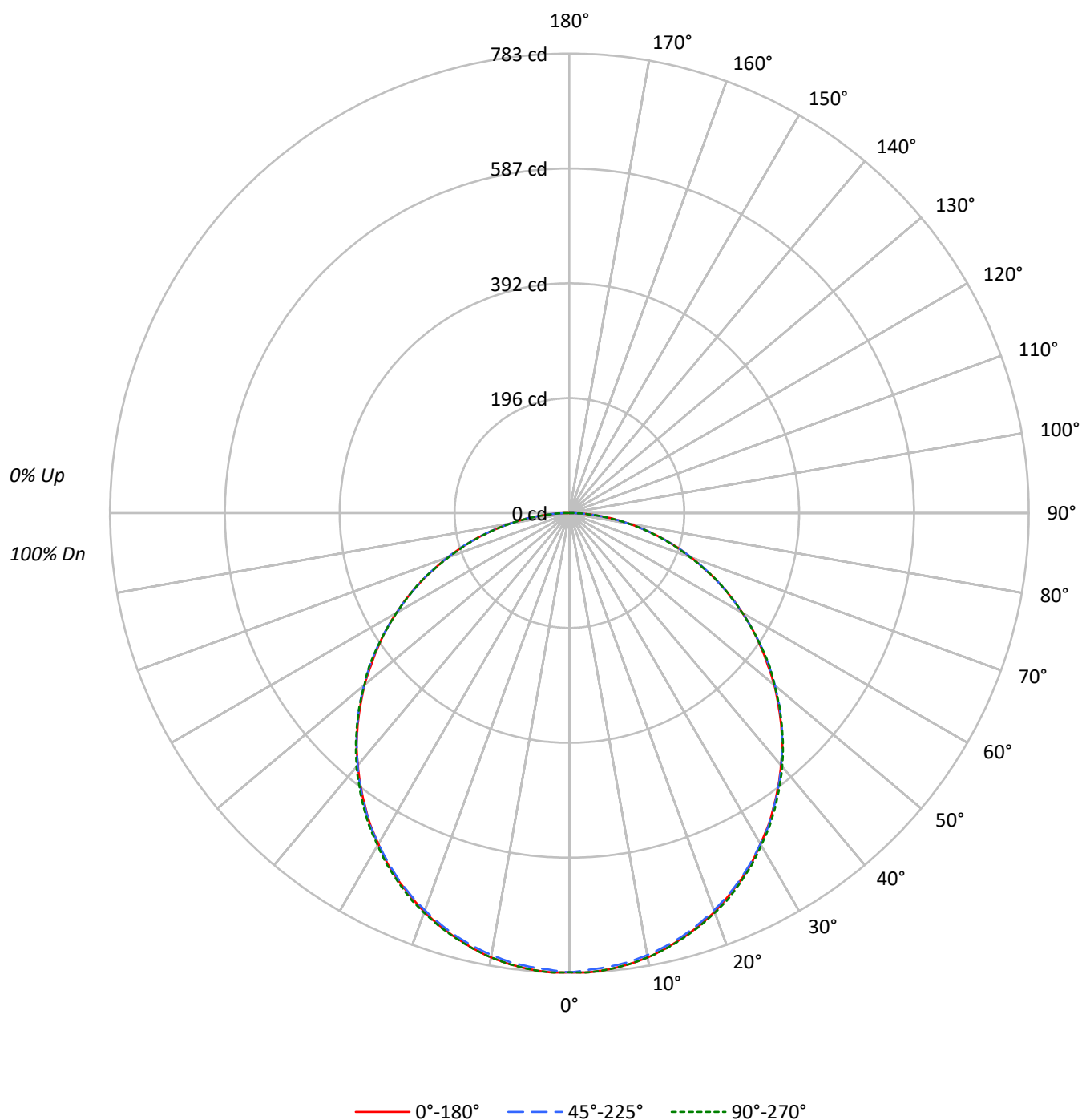
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2106	2106	2106
5°	2108	2097	2108
10°	2102	2090	2102
15°	2087	2079	2089
20°	2071	2063	2075
25°	2050	2046	2056
30°	2023	2023	2032
35°	1998	2000	2009
40°	1970	1973	1983
45°	1941	1947	1949
50°	1908	1914	1911
55°	1870	1879	1876
60°	1833	1833	1833
65°	1791	1791	1799
70°	1734	1734	1717
75°	1674	1667	1658
80°	1596	1585	1574
85°	1501	1479	1436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.3
10°-20°	211.2	9.4
20°-30°	318.3	14.2
30°-40°	381.5	17.0
40°-50°	394.5	17.6
50°-60°	357.7	16.0
60°-70°	278.0	12.4
70°-80°	169.8	7.6
80°-90°	53.1	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°	603.6	27.0
0°-40°	985.0	44.0
0°-60°	1737.1	77.6
0°-90°	2238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	780	780	776	780	780	74
15°	749	749	746	750	750	211
25°	690	690	689	693	692	318
35°	608	609	609	612	612	381
45°	510	511	512	512	512	394
55°	398	400	401	401	400	356
65°	281	281	281	280	283	278
75°	161	161	160	160	160	170
85°	49	47	48	46	46	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	782.7	782.7	782.7	782.7	782.7
2.5°	783.4	782.7	779.1	782.7	783.4
5°	780.5	779.8	776.2	779.8	780.5
7.5°	775.5	775.5	771.9	775.5	775.5
10°	769.1	768.4	764.8	768.4	769.1
12.5°	759.8	759.8	756.2	759.8	760.5
15°	749.0	749.0	746.2	749.8	749.8
17.5°	736.9	737.6	734.0	738.3	738.3
20°	723.3	722.6	720.4	724.0	724.7
22.5°	706.8	707.6	705.4	709.7	710.4
25°	690.4	690.4	689.0	693.2	692.5
27.5°	672.5	672.5	670.4	673.9	674.6
30°	651.0	651.8	651.0	654.6	653.9
32.5°	631.0	631.7	631.7	633.1	633.9
35°	608.1	608.8	608.8	611.7	611.7
37.5°	585.2	585.2	585.9	588.1	588.1
40°	560.9	561.6	561.6	563.8	564.5
42.5°	537.3	535.9	536.6	538.7	538.7
45°	510.1	510.8	511.5	512.2	512.2
47.5°	482.9	484.3	485.1	485.8	485.1
50°	455.7	457.2	457.2	456.4	456.4
52.5°	426.4	430.0	429.3	429.3	430.7
55°	398.5	399.9	400.6	400.6	399.9
57.5°	370.6	372.0	370.6	371.3	369.9
60°	340.5	341.3	340.5	340.5	340.5
62.5°	311.2	311.9	310.5	310.5	310.5
65°	281.2	281.2	281.2	279.7	282.6
67.5°	249.7	251.1	251.1	251.8	249.0
70°	220.4	221.1	220.4	219.6	218.2
72.5°	191.0	191.7	192.4	189.6	188.9
75°	161.0	161.0	160.3	159.5	159.5
77.5°	131.6	131.6	131.6	130.2	130.2
80°	103.0	103.7	102.3	102.3	101.6
82.5°	75.1	75.1	75.1	74.4	73.0
85°	48.6	47.2	47.9	46.5	46.5
87.5°	22.2	22.2	22.2	20.7	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)