

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: P291590

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291590
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2022.0 lumens
Efficiency: N/A
Efficacy: 91.0 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

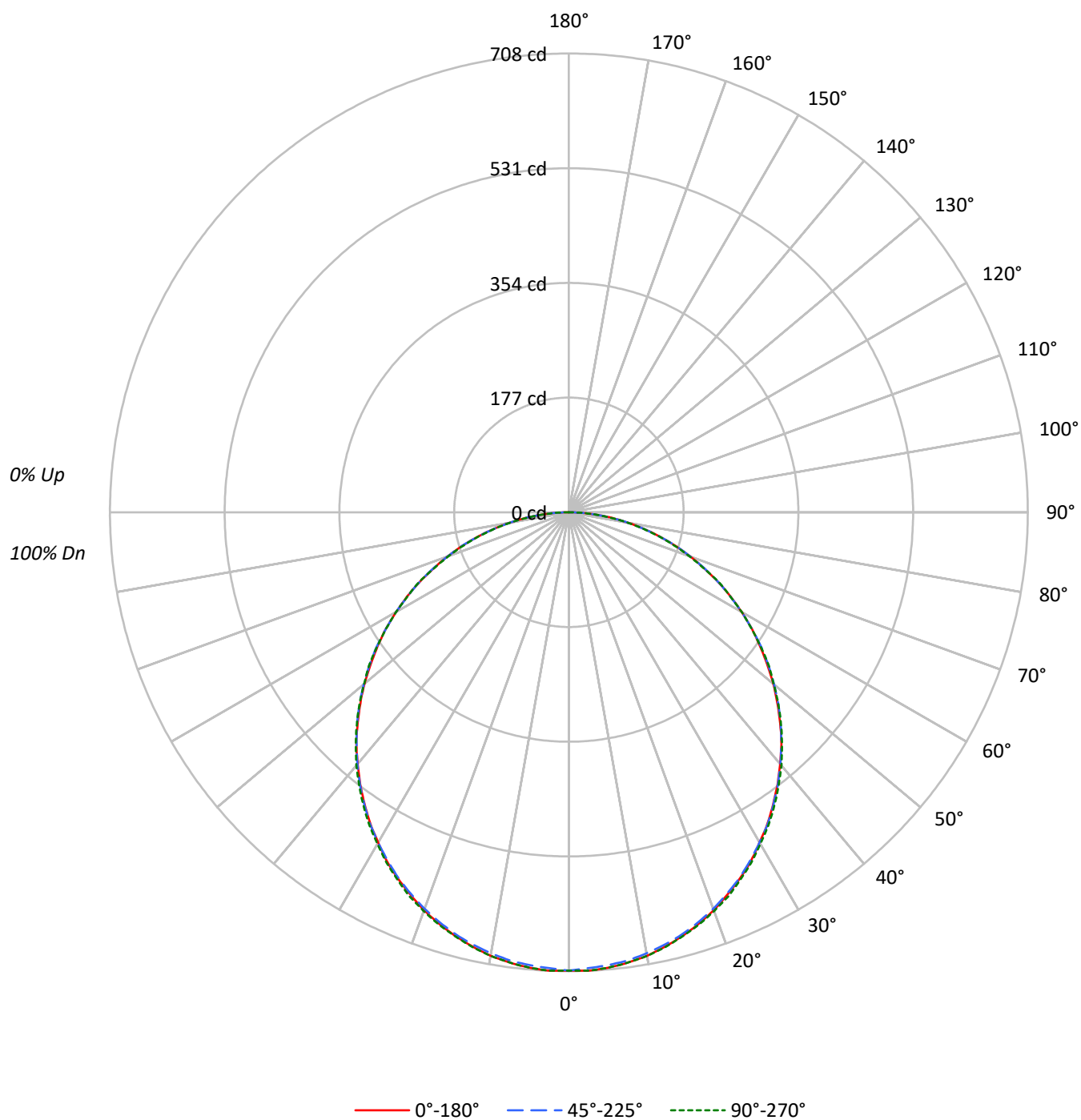
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1903	1903	1903
5°	1905	1894	1905
10°	1899	1888	1899
15°	1886	1878	1887
20°	1871	1864	1875
25°	1852	1848	1858
30°	1828	1828	1836
35°	1805	1807	1816
40°	1780	1782	1792
45°	1754	1759	1761
50°	1724	1729	1726
55°	1689	1698	1695
60°	1656	1656	1656
65°	1617	1617	1626
70°	1566	1566	1551
75°	1512	1506	1498
80°	1443	1432	1423
85°	1359	1337	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.3
10°-20°	190.8	9.4
20°-30°	287.6	14.2
30°-40°	344.6	17.0
40°-50°	356.4	17.6
50°-60°	323.1	16.0
60°-70°	251.1	12.4
70°-80°	153.4	7.6
80°-90°	48.0	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°	545.3	27.0
0°-40°	889.9	44.0
0°-60°	1569.5	77.6
0°-90°	2022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	705	704	701	704	705	67
15°	677	677	674	677	677	191
25°	624	624	622	626	626	287
35°	549	550	550	553	553	344
45°	461	462	462	463	463	356
55°	360	361	362	362	361	322
65°	254	254	254	253	255	251
75°	145	145	145	144	144	154
85°	44	43	43	42	42	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.1	707.1	707.1	707.1	707.1
2.5°	707.8	707.1	703.9	707.1	707.8
5°	705.2	704.5	701.3	704.5	705.2
7.5°	700.7	700.7	697.4	700.7	700.7
10°	694.9	694.2	691.0	694.2	694.9
12.5°	686.4	686.4	683.2	686.4	687.1
15°	676.8	676.8	674.2	677.4	677.4
17.5°	665.8	666.4	663.2	667.1	667.1
20°	653.5	652.8	650.9	654.1	654.8
22.5°	638.6	639.3	637.3	641.2	641.8
25°	623.8	623.8	622.5	626.3	625.7
27.5°	607.6	607.6	605.7	608.9	609.5
30°	588.2	588.8	588.2	591.4	590.8
32.5°	570.1	570.7	570.7	572.0	572.7
35°	549.4	550.1	550.1	552.7	552.7
37.5°	528.7	528.7	529.4	531.3	531.3
40°	506.8	507.4	507.4	509.3	510.0
42.5°	485.4	484.1	484.8	486.7	486.7
45°	460.9	461.5	462.2	462.8	462.8
47.5°	436.3	437.6	438.2	438.9	438.2
50°	411.7	413.0	413.0	412.4	412.4
52.5°	385.2	388.5	387.8	387.8	389.1
55°	360.0	361.3	362.0	362.0	361.3
57.5°	334.8	336.1	334.8	335.5	334.2
60°	307.7	308.3	307.7	307.7	307.7
62.5°	281.2	281.8	280.5	280.5	280.5
65°	254.0	254.0	254.0	252.7	255.3
67.5°	225.6	226.9	226.9	227.5	224.9
70°	199.1	199.7	199.1	198.4	197.1
72.5°	172.6	173.2	173.9	171.3	170.6
75°	145.4	145.4	144.8	144.1	144.1
77.5°	118.9	118.9	118.9	117.6	117.6
80°	93.1	93.7	92.4	92.4	91.8
82.5°	67.9	67.9	67.9	67.2	65.9
85°	44.0	42.7	43.3	42.0	42.0
87.5°	20.0	20.0	20.0	18.7	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)