

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: P291694

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291694
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2068.0 lumens
Efficiency: N/A
Efficacy: 90.4 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

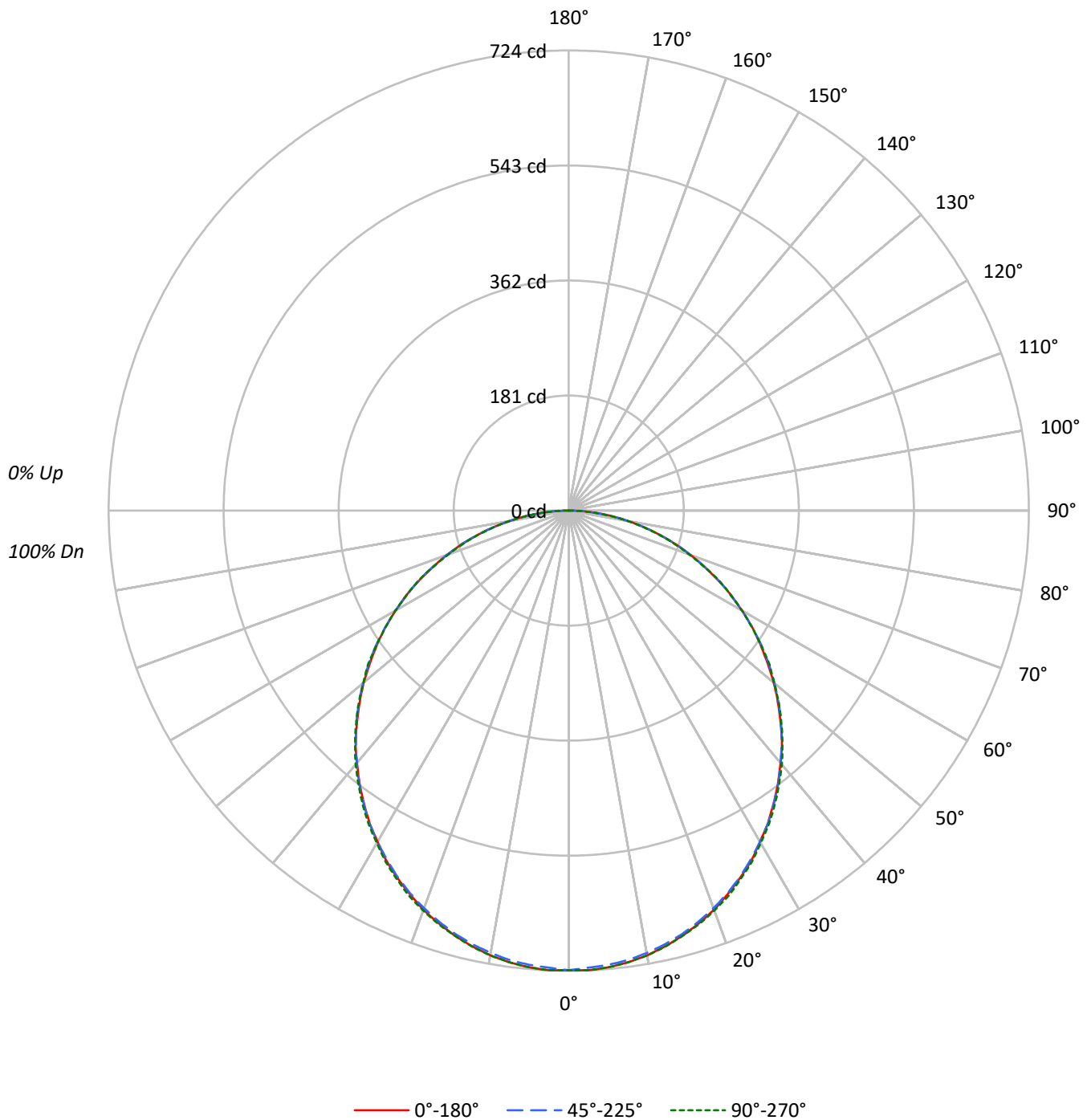
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1946	1946	1946
5°	1948	1938	1948
10°	1942	1931	1942
15°	1928	1921	1930
20°	1914	1906	1918
25°	1894	1890	1900
30°	1869	1869	1877
35°	1846	1848	1857
40°	1821	1823	1832
45°	1794	1799	1801
50°	1763	1768	1766
55°	1727	1737	1734
60°	1694	1694	1694
65°	1654	1654	1663
70°	1602	1602	1586
75°	1546	1540	1533
80°	1475	1464	1455
85°	1389	1368	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	3.3
10°-20°	195.2	9.4
20°-30°	294.1	14.2
30°-40°	352.5	17.0
40°-50°	364.5	17.6
50°-60°	330.5	16.0
60°-70°	256.8	12.4
70°-80°	156.9	7.6
80°-90°	49.1	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°	557.7	27.0
0°-40°	910.2	44.0
0°-60°	1605.2	77.6
0°-90°	2068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	721	721	717	721	721	68
15°	692	692	690	693	693	195
25°	638	638	637	641	640	294
35°	562	563	563	565	565	352
45°	471	472	473	473	473	364
55°	368	370	370	370	370	329
65°	260	260	260	258	261	257
75°	149	149	148	147	147	157
85°	45	44	44	43	43	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.2	723.2	723.2	723.2	723.2
2.5°	723.9	723.2	719.9	723.2	723.9
5°	721.2	720.6	717.3	720.6	721.2
7.5°	716.6	716.6	713.3	716.6	716.6
10°	710.7	710.0	706.7	710.0	710.7
12.5°	702.1	702.1	698.8	702.1	702.7
15°	692.2	692.2	689.5	692.8	692.8
17.5°	680.9	681.6	678.3	682.2	682.2
20°	668.4	667.7	665.7	669.0	669.7
22.5°	653.1	653.8	651.8	655.8	656.5
25°	637.9	637.9	636.6	640.6	639.9
27.5°	621.4	621.4	619.4	622.7	623.4
30°	601.6	602.2	601.6	604.9	604.2
32.5°	583.1	583.7	583.7	585.1	585.7
35°	561.9	562.6	562.6	565.2	565.2
37.5°	540.8	540.8	541.4	543.4	543.4
40°	518.3	518.9	518.9	520.9	521.6
42.5°	496.5	495.1	495.8	497.8	497.8
45°	471.3	472.0	472.7	473.3	473.3
47.5°	446.2	447.6	448.2	448.9	448.2
50°	421.1	422.4	422.4	421.8	421.8
52.5°	394.0	397.3	396.6	396.6	398.0
55°	368.2	369.5	370.2	370.2	369.5
57.5°	342.4	343.8	342.4	343.1	341.8
60°	314.7	315.3	314.7	314.7	314.7
62.5°	287.6	288.2	286.9	286.9	286.9
65°	259.8	259.8	259.8	258.5	261.1
67.5°	230.7	232.0	232.0	232.7	230.1
70°	203.6	204.3	203.6	203.0	201.6
72.5°	176.5	177.2	177.8	175.2	174.5
75°	148.7	148.7	148.1	147.4	147.4
77.5°	121.6	121.6	121.6	120.3	120.3
80°	95.2	95.9	94.5	94.5	93.9
82.5°	69.4	69.4	69.4	68.8	67.4
85°	45.0	43.6	44.3	43.0	43.0
87.5°	20.5	20.5	20.5	19.2	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)