

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: P291692

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291692
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1996.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

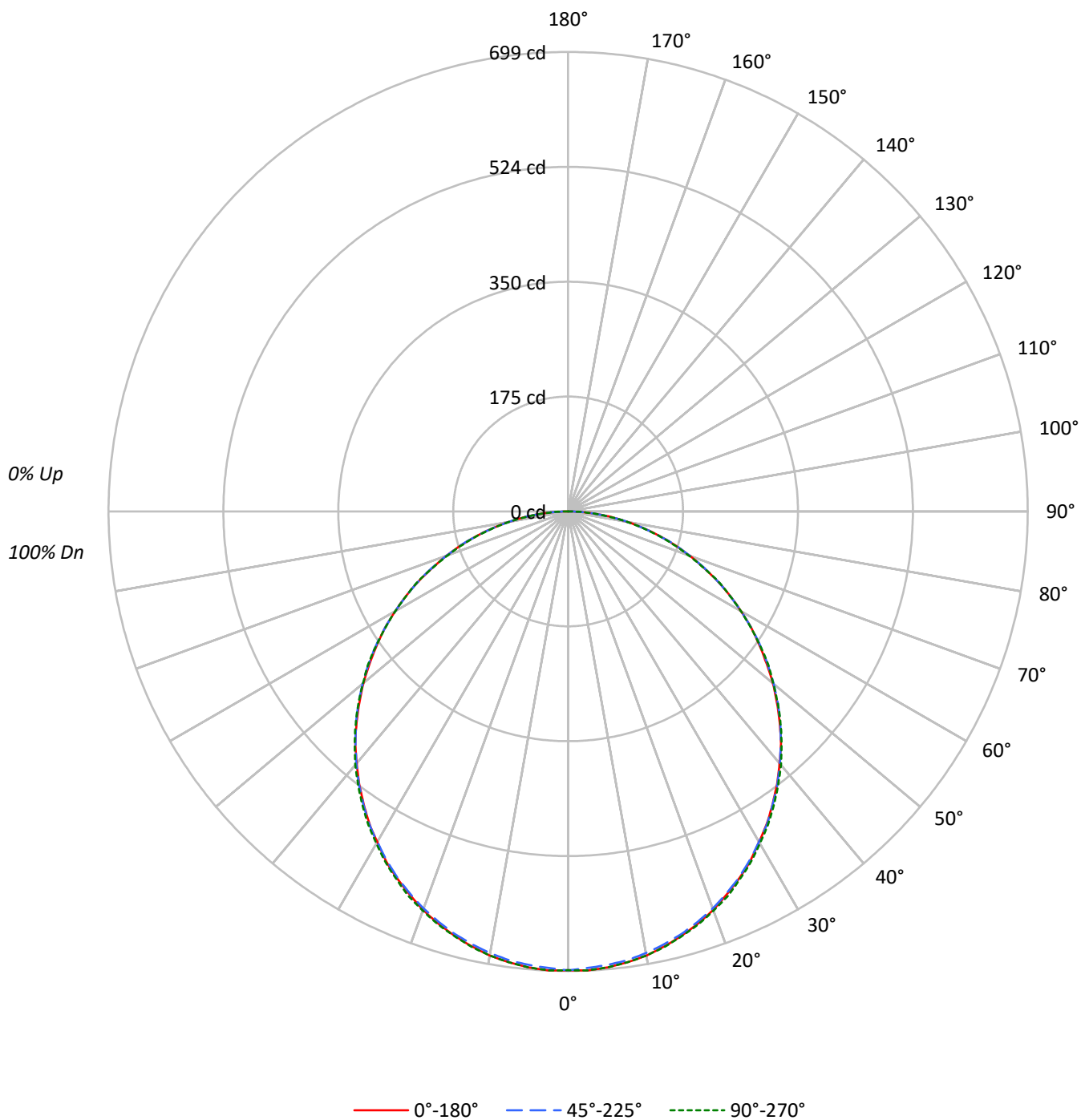
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	1878	1878	1878
5°	1880	1870	1880
10°	1874	1864	1874
15°	1861	1854	1863
20°	1847	1840	1851
25°	1828	1825	1834
30°	1804	1804	1812
35°	1782	1784	1792
40°	1757	1760	1768
45°	1731	1736	1739
50°	1701	1707	1704
55°	1667	1676	1673
60°	1635	1635	1635
65°	1597	1597	1605
70°	1546	1546	1531
75°	1493	1486	1480
80°	1424	1413	1404
85°	1340	1321	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.3
10°-20°	188.4	9.4
20°-30°	283.9	14.2
30°-40°	340.2	17.0
40°-50°	351.8	17.6
50°-60°	319.0	16.0
60°-70°	247.9	12.4
70°-80°	151.4	7.6
80°-90°	47.4	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°	538.3	27.0
0°-40°	878.5	44.0
0°-60°	1549.3	77.6
0°-90°	1996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	696	696	692	696	696	66
15°	668	668	666	669	669	189
25°	616	616	614	618	618	284
35°	542	543	543	546	546	339
45°	455	456	456	457	457	351
55°	355	357	357	357	357	318
65°	251	251	251	250	252	248
75°	144	144	143	142	142	152
85°	43	42	43	42	42	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.0	698.0	698.0	698.0	698.0
2.5°	698.7	698.0	694.9	698.0	698.7
5°	696.1	695.5	692.3	695.5	696.1
7.5°	691.7	691.7	688.5	691.7	691.7
10°	685.9	685.3	682.1	685.3	685.9
12.5°	677.6	677.6	674.4	677.6	678.3
15°	668.1	668.1	665.5	668.7	668.7
17.5°	657.2	657.8	654.7	658.5	658.5
20°	645.1	644.4	642.5	645.7	646.4
22.5°	630.4	631.0	629.1	633.0	633.6
25°	615.7	615.7	614.5	618.3	617.6
27.5°	599.8	599.8	597.9	601.1	601.7
30°	580.6	581.3	580.6	583.8	583.2
32.5°	562.8	563.4	563.4	564.7	565.3
35°	542.4	543.0	543.0	545.5	545.5
37.5°	521.9	521.9	522.6	524.5	524.5
40°	500.2	500.9	500.9	502.8	503.4
42.5°	479.2	477.9	478.5	480.5	480.5
45°	454.9	455.6	456.2	456.9	456.9
47.5°	430.7	432.0	432.6	433.2	432.6
50°	406.4	407.7	407.7	407.1	407.1
52.5°	380.3	383.5	382.8	382.8	384.1
55°	355.4	356.7	357.3	357.3	356.7
57.5°	330.5	331.8	330.5	331.2	329.9
60°	303.7	304.4	303.7	303.7	303.7
62.5°	277.6	278.2	276.9	276.9	276.9
65°	250.8	250.8	250.8	249.5	252.0
67.5°	222.7	224.0	224.0	224.6	222.0
70°	196.5	197.2	196.5	195.9	194.6
72.5°	170.4	171.0	171.6	169.1	168.4
75°	143.6	143.6	142.9	142.3	142.3
77.5°	117.4	117.4	117.4	116.1	116.1
80°	91.9	92.5	91.2	91.2	90.6
82.5°	67.0	67.0	67.0	66.4	65.1
85°	43.4	42.1	42.8	41.5	41.5
87.5°	19.8	19.8	19.8	18.5	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)