

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: P292865

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-FGW080-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1986.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

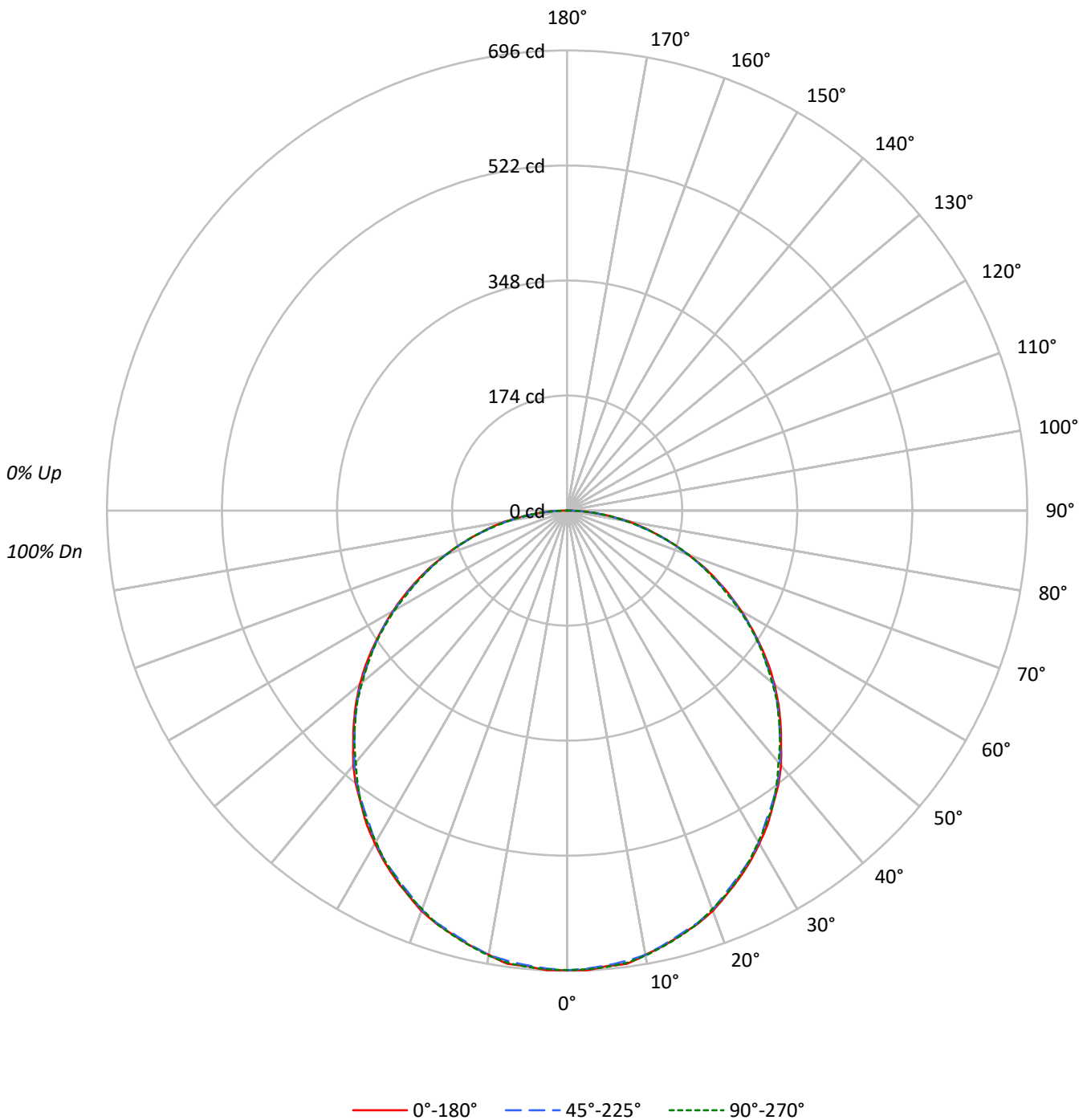
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1870	1870	1870
5°	1868	1865	1871
10°	1864	1864	1868
15°	1852	1847	1854
20°	1845	1840	1837
25°	1825	1814	1820
30°	1807	1801	1798
35°	1783	1776	1783
40°	1768	1760	1747
45°	1738	1727	1727
50°	1714	1704	1694
55°	1677	1666	1664
60°	1638	1629	1623
65°	1597	1578	1571
70°	1533	1528	1533
75°	1480	1461	1473
80°	1464	1392	1382
85°	1297	1260	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.3
10°-20°	187.6	9.4
20°-30°	282.5	14.2
30°-40°	339.1	17.1
40°-50°	350.8	17.7
50°-60°	317.9	16.0
60°-70°	246.4	12.4
70°-80°	149.6	7.5
80°-90°	46.3	2.3
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°	535.9	27.0
0°-40°	875.0	44.1
0°-60°	1543.7	77.7
0°-90°	1986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	692	692	690	692	693	66
15°	665	665	663	666	665	188
25°	615	614	611	614	613	283
35°	543	543	541	541	543	340
45°	457	456	454	454	454	352
55°	358	357	355	355	355	320
65°	251	251	248	249	247	248
75°	142	142	140	140	142	151
85°	42	41	41	41	41	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.1	695.1	695.1	695.1	695.1
2.5°	695.7	692.8	693.4	694.5	694.5
5°	691.6	691.6	690.5	692.2	692.8
7.5°	691.6	688.7	687.0	688.7	689.9
10°	682.3	681.1	682.3	681.7	683.5
12.5°	674.1	673.0	673.0	674.7	674.7
15°	664.8	664.8	663.0	666.0	665.4
17.5°	655.5	655.5	654.3	654.3	655.5
20°	644.4	641.5	642.6	642.1	641.5
22.5°	629.2	627.5	626.3	628.1	628.6
25°	614.6	613.5	611.1	613.5	612.9
27.5°	598.9	597.7	597.1	596.0	597.1
30°	581.4	580.2	579.7	578.5	578.5
32.5°	563.9	561.6	558.7	561.6	561.0
35°	542.9	542.9	540.6	541.2	542.9
37.5°	524.3	523.1	521.9	520.2	520.8
40°	503.3	501.5	500.9	499.8	497.4
42.5°	478.8	478.8	476.4	477.0	476.4
45°	456.6	456.0	453.7	453.7	453.7
47.5°	433.3	432.7	431.0	429.8	431.0
50°	409.4	407.0	407.0	405.3	404.7
52.5°	384.3	382.5	380.2	380.8	379.6
55°	357.5	356.9	355.1	354.6	354.6
57.5°	330.6	331.2	330.1	327.7	328.3
60°	304.4	303.8	302.7	301.5	301.5
62.5°	277.6	277.6	275.2	275.2	272.9
65°	250.8	250.8	247.8	249.0	246.7
67.5°	223.9	223.3	221.6	221.0	221.6
70°	194.8	195.4	194.2	194.2	194.8
72.5°	168.5	167.9	167.4	167.4	168.5
75°	142.3	141.7	140.5	140.5	141.7
77.5°	118.4	115.5	114.9	116.0	114.3
80°	94.5	90.4	89.8	89.2	89.2
82.5°	66.5	64.7	65.3	64.7	65.9
85°	42.0	41.4	40.8	40.8	41.4
87.5°	19.8	18.7	18.7	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)