

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: P292826

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292826
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-LD5-32-FGW080-UNV-L93050-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: 2094.0 lumens
Efficiency: N/A
Efficacy: 83.4 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

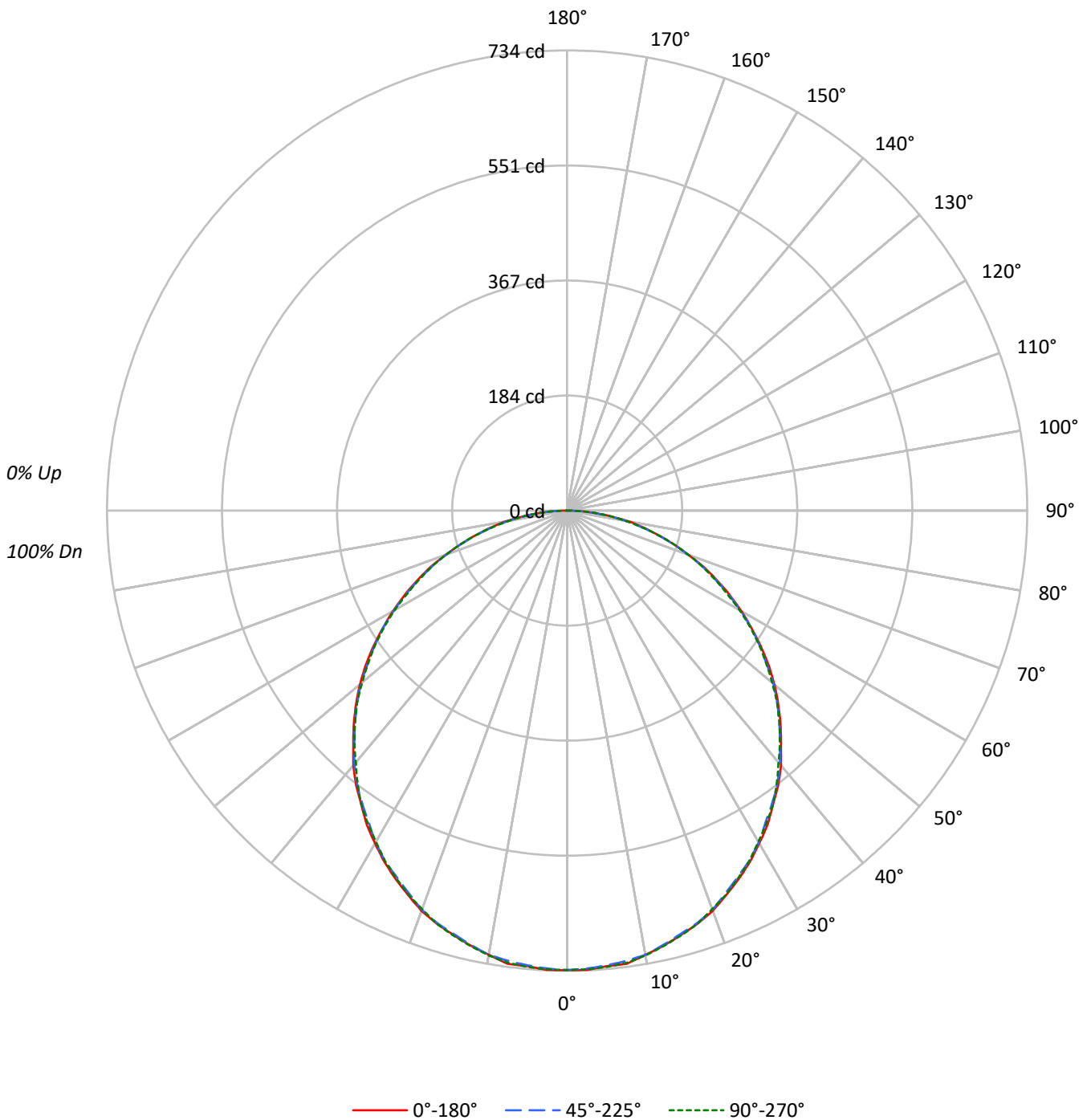
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1972	1972	1972
5°	1970	1967	1973
10°	1966	1966	1969
15°	1953	1948	1955
20°	1946	1940	1937
25°	1924	1913	1919
30°	1905	1899	1895
35°	1880	1872	1880
40°	1864	1855	1842
45°	1832	1821	1821
50°	1807	1797	1786
55°	1768	1757	1754
60°	1728	1717	1711
65°	1684	1664	1656
70°	1616	1611	1616
75°	1560	1541	1553
80°	1543	1468	1458
85°	1368	1328	1349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.3
10°-20°	197.8	9.4
20°-30°	297.9	14.2
30°-40°	357.5	17.1
40°-50°	369.9	17.7
50°-60°	335.2	16.0
60°-70°	259.8	12.4
70°-80°	157.7	7.5
80°-90°	48.8	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°	565.1	27.0
0°-40°	922.5	44.1
0°-60°	1627.6	77.7
0°-90°	2094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	729	729	728	730	730	69
15°	701	701	699	702	702	198
25°	648	647	644	647	646	299
35°	572	572	570	571	572	359
45°	481	481	478	478	478	371
55°	377	376	374	374	374	337
65°	264	264	261	262	260	261
75°	150	149	148	148	149	160
85°	44	44	43	43	44	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.9	732.9	732.9	732.9	732.9
2.5°	733.5	730.5	731.1	732.3	732.3
5°	729.2	729.2	728.0	729.8	730.5
7.5°	729.2	726.2	724.3	726.2	727.4
10°	719.4	718.2	719.4	718.8	720.6
12.5°	710.8	709.6	709.6	711.4	711.4
15°	700.9	700.9	699.1	702.2	701.6
17.5°	691.1	691.1	689.9	689.9	691.1
20°	679.4	676.4	677.6	677.0	676.4
22.5°	663.4	661.6	660.4	662.2	662.8
25°	648.1	646.8	644.4	646.8	646.2
27.5°	631.5	630.2	629.6	628.4	629.6
30°	613.0	611.8	611.2	609.9	609.9
32.5°	594.6	592.1	589.0	592.1	591.5
35°	572.4	572.4	570.0	570.6	572.4
37.5°	552.8	551.5	550.3	548.5	549.1
40°	530.6	528.8	528.2	526.9	524.5
42.5°	504.8	504.8	502.3	503.0	502.3
45°	481.4	480.8	478.4	478.4	478.4
47.5°	456.8	456.2	454.4	453.2	454.4
50°	431.6	429.2	429.2	427.3	426.7
52.5°	405.2	403.4	400.9	401.5	400.3
55°	376.9	376.3	374.5	373.8	373.8
57.5°	348.6	349.2	348.0	345.6	346.2
60°	321.0	320.3	319.1	317.9	317.9
62.5°	292.7	292.7	290.2	290.2	287.8
65°	264.4	264.4	261.3	262.5	260.1
67.5°	236.1	235.5	233.6	233.0	233.6
70°	205.4	206.0	204.8	204.8	205.4
72.5°	177.7	177.1	176.5	176.5	177.7
75°	150.0	149.4	148.2	148.2	149.4
77.5°	124.8	121.7	121.1	122.4	120.5
80°	99.6	95.3	94.7	94.1	94.1
82.5°	70.1	68.3	68.9	68.3	69.5
85°	44.3	43.7	43.0	43.0	43.7
87.5°	20.9	19.7	19.7	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)