

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: P292874

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292874
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-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: 2193.0 lumens
Efficiency: N/A
Efficacy: 90.0 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

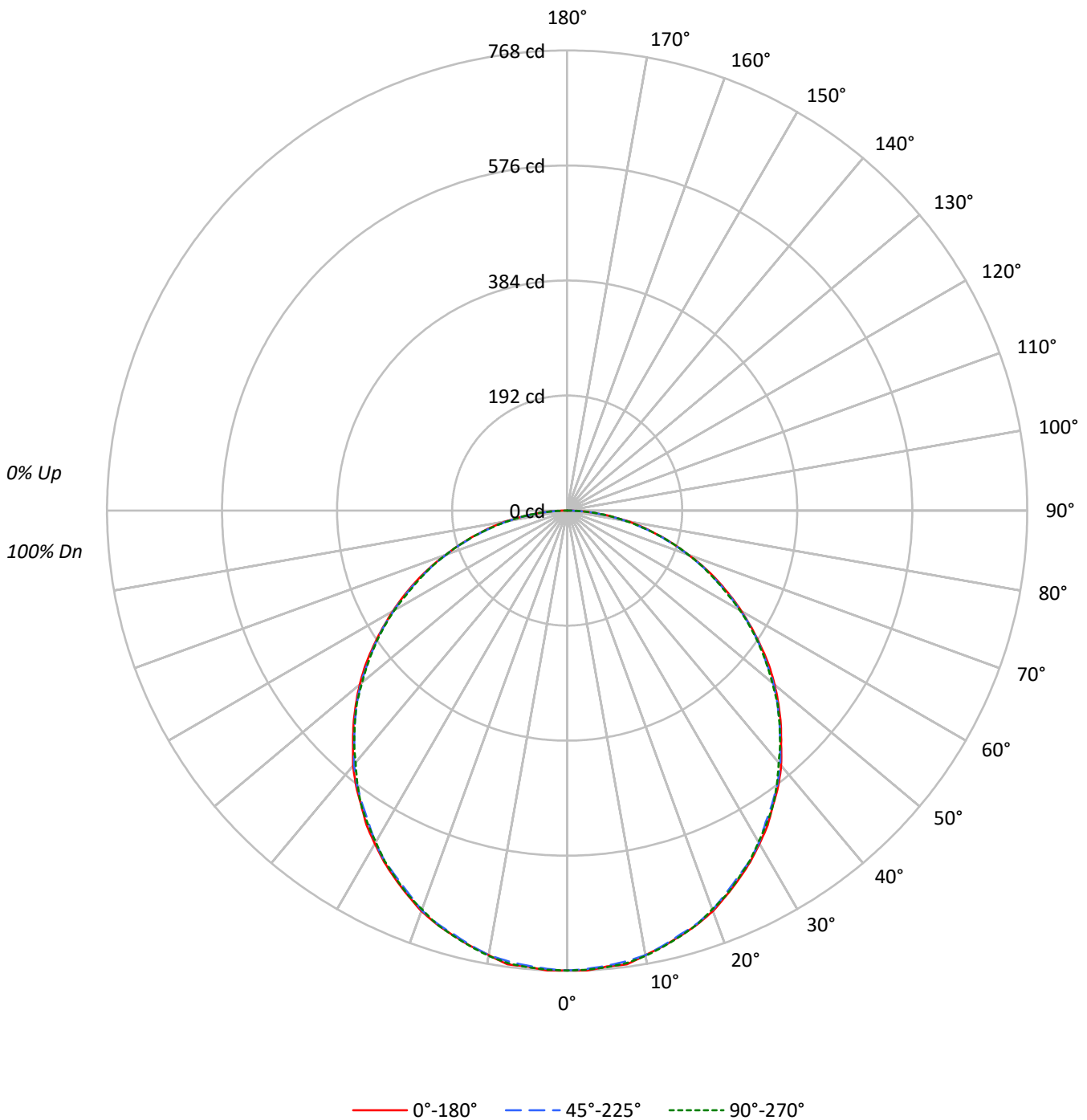
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2066	2066	2066
5°	2063	2059	2066
10°	2059	2059	2062
15°	2045	2040	2047
20°	2038	2032	2028
25°	2015	2004	2010
30°	1995	1989	1985
35°	1969	1961	1969
40°	1952	1943	1930
45°	1919	1907	1907
50°	1892	1882	1871
55°	1852	1840	1837
60°	1809	1799	1792
65°	1763	1743	1734
70°	1692	1687	1692
75°	1633	1614	1627
80°	1616	1537	1526
85°	1433	1392	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	3.3
10°-20°	207.2	9.4
20°-30°	312.0	14.2
30°-40°	374.4	17.1
40°-50°	387.4	17.7
50°-60°	351.0	16.0
60°-70°	272.1	12.4
70°-80°	165.2	7.5
80°-90°	51.1	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°	591.8	27.0
0°-40°	966.2	44.1
0°-60°	1704.6	77.7
0°-90°	2193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	764	764	762	764	765	73
15°	734	734	732	735	735	207
25°	679	677	675	677	677	313
35°	600	600	597	598	600	376
45°	504	504	501	501	501	389
55°	395	394	392	392	392	353
65°	277	277	274	275	272	274
75°	157	156	155	155	156	167
85°	46	46	45	45	46	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.6	767.6	767.6	767.6	767.6
2.5°	768.2	765.0	765.6	766.9	766.9
5°	763.7	763.7	762.4	764.4	765.0
7.5°	763.7	760.5	758.6	760.5	761.8
10°	753.4	752.1	753.4	752.8	754.7
12.5°	744.4	743.1	743.1	745.0	745.0
15°	734.1	734.1	732.2	735.4	734.7
17.5°	723.8	723.8	722.5	722.5	723.8
20°	711.5	708.3	709.6	709.0	708.3
22.5°	694.8	692.9	691.6	693.5	694.2
25°	678.7	677.4	674.8	677.4	676.8
27.5°	661.3	660.0	659.4	658.1	659.4
30°	642.0	640.7	640.1	638.8	638.8
32.5°	622.7	620.1	616.9	620.1	619.5
35°	599.5	599.5	596.9	597.6	599.5
37.5°	578.9	577.6	576.3	574.4	575.0
40°	555.7	553.8	553.1	551.9	549.3
42.5°	528.7	528.7	526.1	526.7	526.1
45°	504.2	503.6	501.0	501.0	501.0
47.5°	478.4	477.8	475.9	474.6	475.9
50°	452.0	449.5	449.5	447.5	446.9
52.5°	424.4	422.4	419.8	420.5	419.2
55°	394.7	394.1	392.2	391.5	391.5
57.5°	365.1	365.8	364.5	361.9	362.5
60°	336.1	335.5	334.2	332.9	332.9
62.5°	306.5	306.5	303.9	303.9	301.4
65°	276.9	276.9	273.7	275.0	272.4
67.5°	247.3	246.6	244.7	244.1	244.7
70°	215.1	215.7	214.4	214.4	215.1
72.5°	186.1	185.5	184.8	184.8	186.1
75°	157.1	156.5	155.2	155.2	156.5
77.5°	130.7	127.5	126.9	128.1	126.2
80°	104.3	99.8	99.2	98.5	98.5
82.5°	73.4	71.5	72.1	71.5	72.8
85°	46.4	45.7	45.1	45.1	45.7
87.5°	21.9	20.6	20.6	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)