

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: P292827

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292827
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-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2288.0 lumens
Efficiency: N/A
Efficacy: 91.5 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

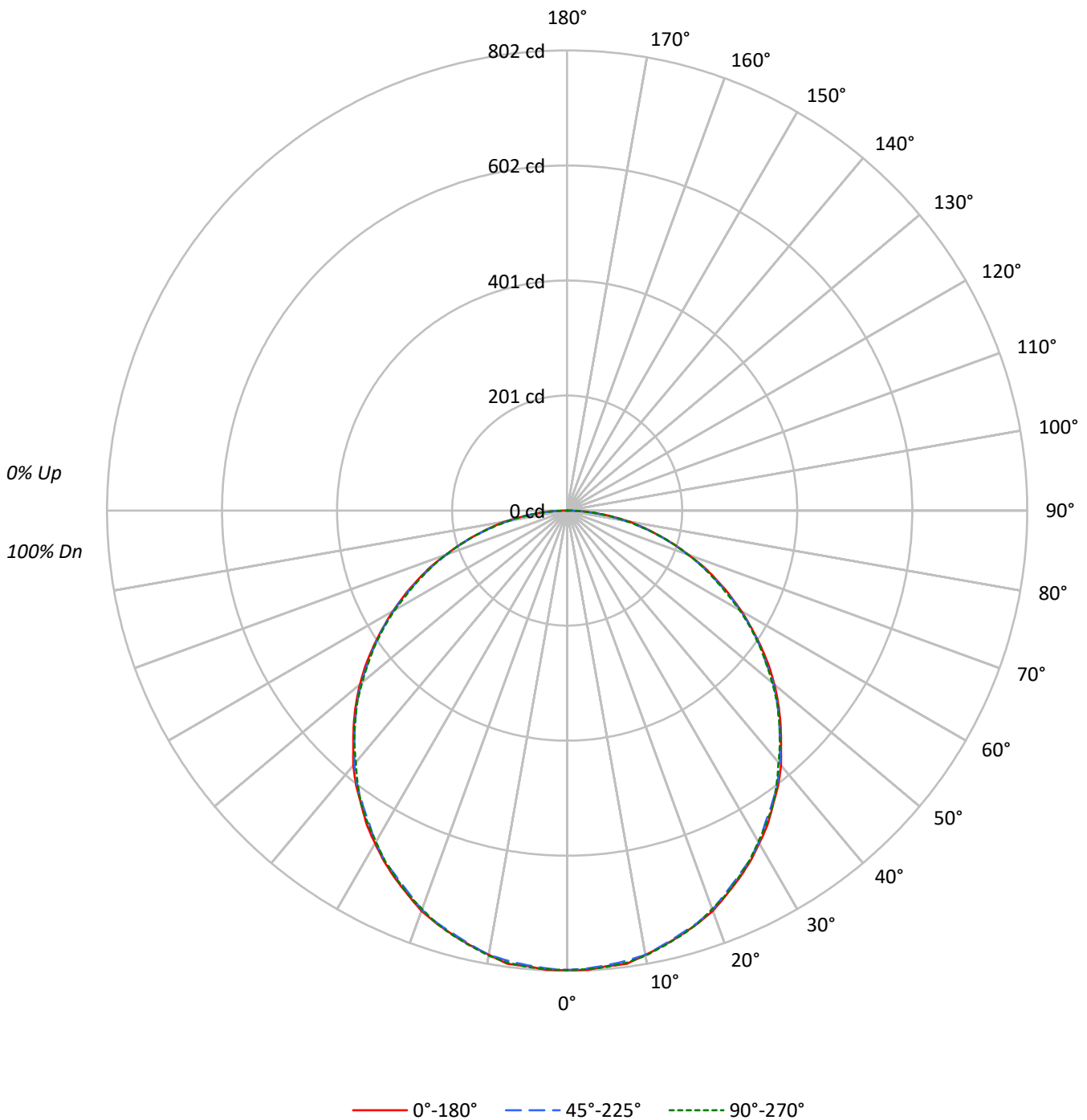
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2155	2155	2155
5°	2152	2149	2156
10°	2148	2148	2152
15°	2134	2128	2136
20°	2126	2120	2116
25°	2102	2091	2097
30°	2081	2075	2071
35°	2055	2046	2055
40°	2037	2027	2013
45°	2002	1989	1989
50°	1974	1963	1952
55°	1932	1919	1917
60°	1887	1877	1869
65°	1840	1818	1810
70°	1766	1760	1766
75°	1704	1683	1698
80°	1686	1604	1593
85°	1494	1451	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.3
10°-20°	216.2	9.4
20°-30°	325.5	14.2
30°-40°	390.6	17.1
40°-50°	404.2	17.7
50°-60°	366.2	16.0
60°-70°	283.9	12.4
70°-80°	172.4	7.5
80°-90°	53.3	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°	617.4	27.0
0°-40°	1008.0	44.1
0°-60°	1778.4	77.7
0°-90°	2288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	797	797	795	798	798	76
15°	766	766	764	767	767	216
25°	708	707	704	707	706	326
35°	626	626	623	624	626	392
45°	526	525	523	523	523	406
55°	412	411	409	408	408	368
65°	289	289	286	287	284	286
75°	164	163	162	162	163	174
85°	48	48	47	47	48	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.8	800.8	800.8	800.8	800.8
2.5°	801.5	798.1	798.8	800.1	800.1
5°	796.8	796.8	795.4	797.5	798.1
7.5°	796.8	793.4	791.4	793.4	794.8
10°	786.0	784.7	786.0	785.4	787.4
12.5°	776.6	775.3	775.3	777.3	777.3
15°	765.9	765.9	763.9	767.2	766.6
17.5°	755.1	755.1	753.8	753.8	755.1
20°	742.4	739.0	740.4	739.7	739.0
22.5°	724.9	722.9	721.5	723.6	724.2
25°	708.1	706.8	704.1	706.8	706.1
27.5°	690.0	688.6	688.0	686.6	688.0
30°	669.8	668.5	667.8	666.5	666.5
32.5°	649.7	647.0	643.6	647.0	646.3
35°	625.5	625.5	622.8	623.5	625.5
37.5°	604.0	602.6	601.3	599.3	599.9
40°	579.8	577.8	577.1	575.8	573.1
42.5°	551.6	551.6	548.9	549.6	548.9
45°	526.0	525.4	522.7	522.7	522.7
47.5°	499.2	498.5	496.5	495.1	496.5
50°	471.6	468.9	468.9	466.9	466.3
52.5°	442.7	440.7	438.0	438.7	437.4
55°	411.8	411.2	409.1	408.5	408.5
57.5°	380.9	381.6	380.3	377.6	378.2
60°	350.7	350.0	348.7	347.3	347.3
62.5°	319.8	319.8	317.1	317.1	314.4
65°	288.9	288.9	285.5	286.9	284.2
67.5°	258.0	257.3	255.3	254.6	255.3
70°	224.4	225.1	223.7	223.7	224.4
72.5°	194.2	193.5	192.8	192.8	194.2
75°	163.9	163.3	161.9	161.9	163.3
77.5°	136.4	133.0	132.4	133.7	131.7
80°	108.8	104.1	103.5	102.8	102.8
82.5°	76.6	74.6	75.2	74.6	75.9
85°	48.4	47.7	47.0	47.0	47.7
87.5°	22.8	21.5	21.5	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)