

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: P292823

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292823
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-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2238.0 lumens
Efficiency: N/A
Efficacy: 99.0 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

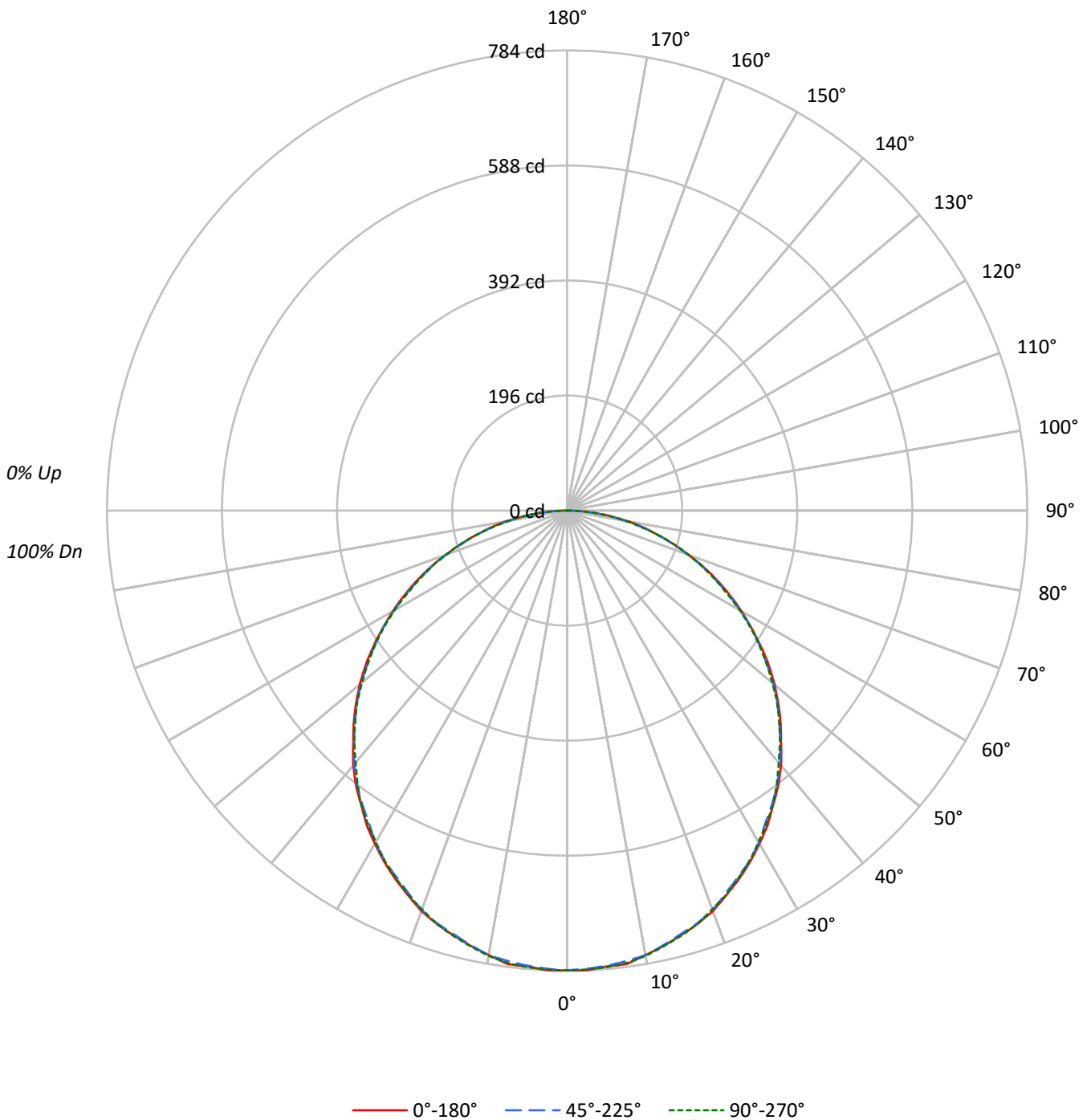
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2108	2108	2108
5°	2105	2102	2109
10°	2101	2101	2105
15°	2087	2082	2089
20°	2079	2074	2070
25°	2056	2045	2051
30°	2036	2030	2026
35°	2010	2001	2010
40°	1992	1983	1969
45°	1958	1946	1946
50°	1931	1920	1909
55°	1890	1878	1874
60°	1846	1836	1828
65°	1799	1778	1770
70°	1727	1721	1727
75°	1667	1647	1660
80°	1650	1568	1557
85°	1460	1420	1442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.3
10°-20°	211.4	9.4
20°-30°	318.4	14.2
30°-40°	382.1	17.1
40°-50°	395.3	17.7
50°-60°	358.2	16.0
60°-70°	277.7	12.4
70°-80°	168.6	7.5
80°-90°	52.2	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°	603.9	27.0
0°-40°	986.0	44.1
0°-60°	1739.5	77.7
0°-90°	2238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	779	779	778	780	781	74
15°	749	749	747	750	750	212
25°	693	691	689	691	691	319
35°	612	612	609	610	612	384
45°	514	514	511	511	511	397
55°	403	402	400	400	400	360
65°	283	283	279	281	278	279
75°	160	160	158	158	160	171
85°	47	47	46	46	47	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.3	783.3	783.3	783.3	783.3
2.5°	784.0	780.7	781.3	782.7	782.7
5°	779.4	779.4	778.1	780.0	780.7
7.5°	779.4	776.1	774.1	776.1	777.4
10°	768.9	767.5	768.9	768.2	770.2
12.5°	759.7	758.3	758.3	760.3	760.3
15°	749.1	749.1	747.2	750.5	749.8
17.5°	738.6	738.6	737.3	737.3	738.6
20°	726.1	722.9	724.2	723.5	722.9
22.5°	709.1	707.1	705.8	707.7	708.4
25°	692.6	691.3	688.7	691.3	690.7
27.5°	674.9	673.6	672.9	671.6	672.9
30°	655.2	653.9	653.2	651.9	651.9
32.5°	635.5	632.8	629.5	632.8	632.2
35°	611.8	611.8	609.2	609.8	611.8
37.5°	590.8	589.5	588.1	586.2	586.8
40°	567.1	565.1	564.5	563.2	560.5
42.5°	539.5	539.5	536.9	537.5	536.9
45°	514.5	513.9	511.3	511.3	511.3
47.5°	488.3	487.6	485.6	484.3	485.6
50°	461.3	458.7	458.7	456.7	456.1
52.5°	433.1	431.1	428.5	429.1	427.8
55°	402.8	402.2	400.2	399.5	399.5
57.5°	372.6	373.3	371.9	369.3	370.0
60°	343.0	342.4	341.1	339.7	339.7
62.5°	312.8	312.8	310.2	310.2	307.5
65°	282.6	282.6	279.3	280.6	278.0
67.5°	252.3	251.7	249.7	249.1	249.7
70°	219.5	220.1	218.8	218.8	219.5
72.5°	189.9	189.3	188.6	188.6	189.9
75°	160.3	159.7	158.4	158.4	159.7
77.5°	133.4	130.1	129.5	130.8	128.8
80°	106.5	101.9	101.2	100.5	100.5
82.5°	74.9	72.9	73.6	72.9	74.3
85°	47.3	46.7	46.0	46.0	46.7
87.5°	22.3	21.0	21.0	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)