

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: P292822

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292822
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-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: 2071.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

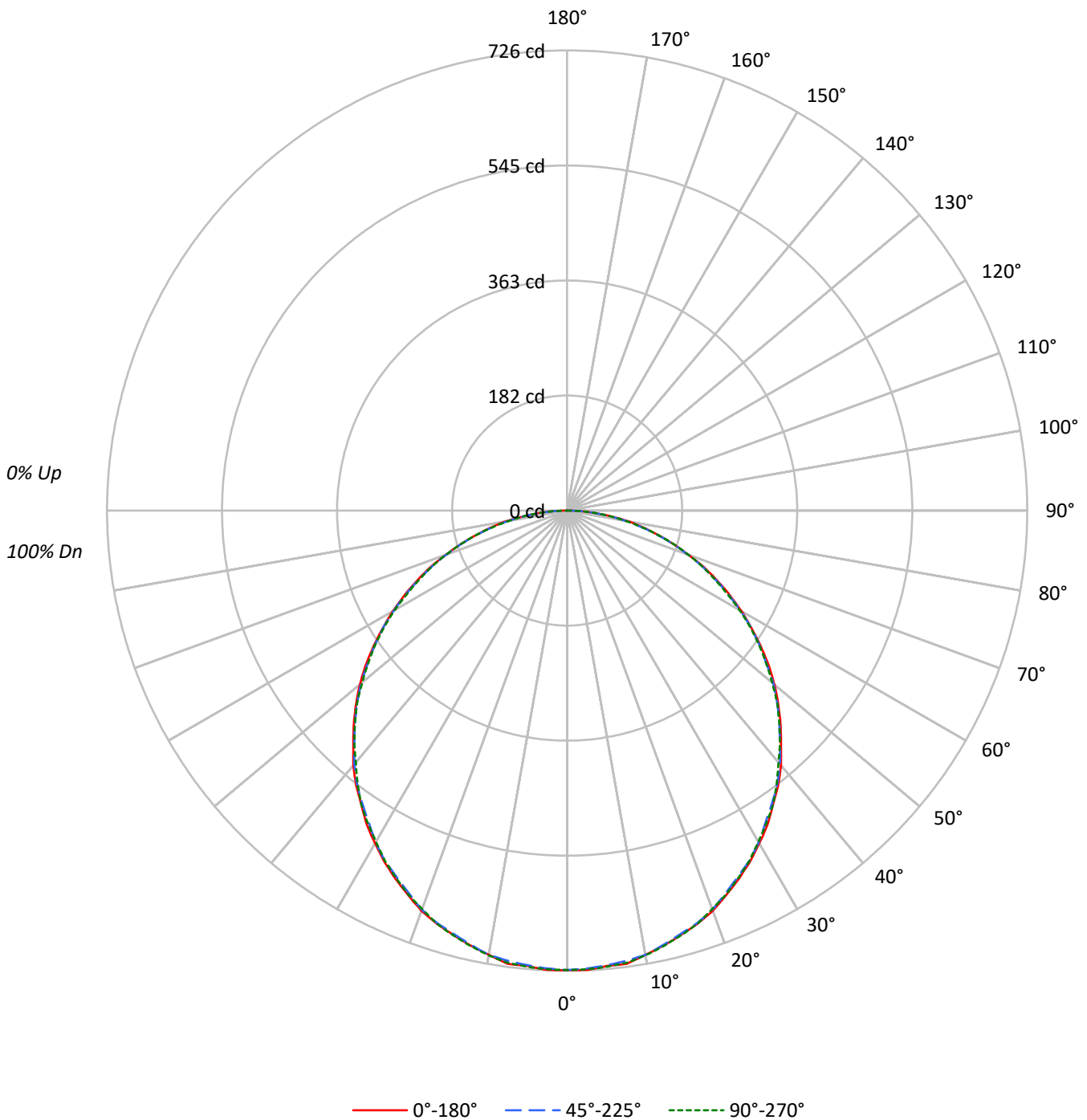
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1951	1951	1951
5°	1948	1945	1951
10°	1944	1944	1947
15°	1931	1926	1933
20°	1924	1919	1916
25°	1903	1892	1898
30°	1884	1878	1874
35°	1860	1852	1860
40°	1844	1835	1822
45°	1812	1800	1800
50°	1787	1777	1767
55°	1749	1737	1734
60°	1708	1699	1692
65°	1665	1645	1638
70°	1598	1593	1598
75°	1543	1524	1537
80°	1526	1450	1441
85°	1352	1315	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	3.3
10°-20°	195.7	9.4
20°-30°	294.6	14.2
30°-40°	353.6	17.1
40°-50°	365.8	17.7
50°-60°	331.5	16.0
60°-70°	257.0	12.4
70°-80°	156.0	7.5
80°-90°	48.3	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°	558.8	27.0
0°-40°	912.4	44.1
0°-60°	1609.7	77.7
0°-90°	2071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	721	721	720	722	722	69
15°	693	693	691	694	694	196
25°	641	640	637	640	639	295
35°	566	566	564	564	566	355
45°	476	476	473	473	473	367
55°	373	372	370	370	370	333
65°	262	262	258	260	257	259
75°	148	148	147	147	148	158
85°	44	43	43	43	43	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.9	724.9	724.9	724.9	724.9
2.5°	725.5	722.4	723.0	724.3	724.3
5°	721.2	721.2	720.0	721.8	722.4
7.5°	721.2	718.2	716.4	718.2	719.4
10°	711.5	710.3	711.5	710.9	712.7
12.5°	703.0	701.8	701.8	703.6	703.6
15°	693.2	693.2	691.4	694.5	693.9
17.5°	683.5	683.5	682.3	682.3	683.5
20°	672.0	668.9	670.1	669.5	668.9
22.5°	656.2	654.3	653.1	654.9	655.5
25°	640.9	639.7	637.3	639.7	639.1
27.5°	624.5	623.3	622.7	621.5	622.7
30°	606.3	605.1	604.5	603.2	603.2
32.5°	588.0	585.6	582.6	585.6	585.0
35°	566.2	566.2	563.7	564.3	566.2
37.5°	546.7	545.5	544.3	542.4	543.0
40°	524.8	523.0	522.4	521.2	518.7
42.5°	499.3	499.3	496.8	497.4	496.8
45°	476.2	475.5	473.1	473.1	473.1
47.5°	451.8	451.2	449.4	448.2	449.4
50°	426.9	424.5	424.5	422.6	422.0
52.5°	400.7	398.9	396.5	397.1	395.9
55°	372.8	372.2	370.3	369.7	369.7
57.5°	344.8	345.4	344.2	341.8	342.4
60°	317.4	316.8	315.6	314.4	314.4
62.5°	289.5	289.5	287.0	287.0	284.6
65°	261.5	261.5	258.4	259.7	257.2
67.5°	233.5	232.9	231.1	230.5	231.1
70°	203.1	203.7	202.5	202.5	203.1
72.5°	175.7	175.1	174.5	174.5	175.7
75°	148.4	147.8	146.6	146.6	147.8
77.5°	123.4	120.4	119.8	121.0	119.2
80°	98.5	94.3	93.6	93.0	93.0
82.5°	69.3	67.5	68.1	67.5	68.7
85°	43.8	43.2	42.6	42.6	43.2
87.5°	20.7	19.5	19.5	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)