

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: P292766

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292766
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-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2236.0 lumens
Efficiency: N/A
Efficacy: 101.4 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

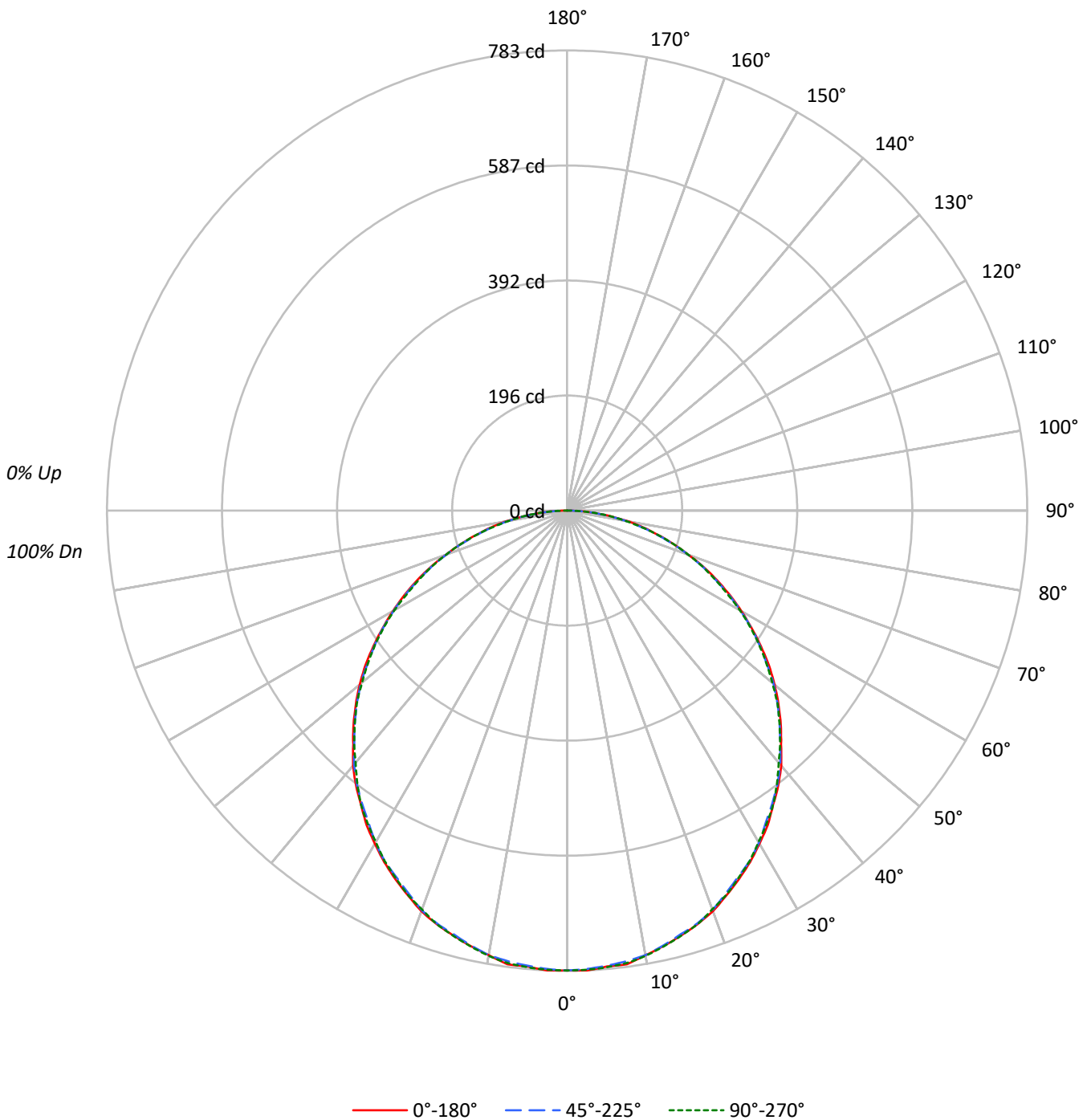
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2106	2106	2106
5°	2103	2100	2107
10°	2099	2099	2103
15°	2085	2080	2087
20°	2078	2072	2068
25°	2055	2043	2049
30°	2034	2028	2024
35°	2008	1999	2008
40°	1990	1981	1967
45°	1956	1944	1944
50°	1930	1919	1908
55°	1888	1876	1873
60°	1844	1834	1827
65°	1798	1777	1768
70°	1725	1720	1725
75°	1666	1645	1658
80°	1649	1567	1557
85°	1460	1420	1439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.3
10°-20°	211.2	9.4
20°-30°	318.1	14.2
30°-40°	381.7	17.1
40°-50°	395.0	17.7
50°-60°	357.9	16.0
60°-70°	277.4	12.4
70°-80°	168.4	7.5
80°-90°	52.1	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°	603.4	27.0
0°-40°	985.1	44.1
0°-60°	1738.0	77.7
0°-90°	2236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	779	779	777	779	780	74
15°	748	748	746	750	749	211
25°	692	691	688	691	690	319
35°	611	611	609	609	611	383
45°	514	513	511	511	511	397
55°	402	402	400	399	399	360
65°	282	282	279	280	278	279
75°	160	160	158	158	160	170
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°	782.6	782.6	782.6	782.6	782.6
2.5°	783.3	780.0	780.7	782.0	782.0
5°	778.7	778.7	777.4	779.3	780.0
7.5°	778.7	775.4	773.4	775.4	776.7
10°	768.2	766.9	768.2	767.5	769.5
12.5°	759.0	757.7	757.7	759.6	759.6
15°	748.5	748.5	746.5	749.8	749.1
17.5°	738.0	738.0	736.7	736.7	738.0
20°	725.5	722.2	723.5	722.9	722.2
22.5°	708.4	706.5	705.1	707.1	707.8
25°	692.0	690.7	688.1	690.7	690.0
27.5°	674.3	673.0	672.3	671.0	672.3
30°	654.6	653.3	652.6	651.3	651.3
32.5°	634.9	632.3	629.0	632.3	631.6
35°	611.3	611.3	608.6	609.3	611.3
37.5°	590.2	588.9	587.6	585.7	586.3
40°	566.6	564.6	564.0	562.7	560.0
42.5°	539.0	539.0	536.4	537.1	536.4
45°	514.1	513.4	510.8	510.8	510.8
47.5°	487.8	487.2	485.2	483.9	485.2
50°	460.9	458.3	458.3	456.3	455.7
52.5°	432.7	430.7	428.1	428.7	427.4
55°	402.5	401.8	399.8	399.2	399.2
57.5°	372.3	372.9	371.6	369.0	369.6
60°	342.7	342.1	340.8	339.4	339.4
62.5°	312.5	312.5	309.9	309.9	307.3
65°	282.3	282.3	279.0	280.4	277.7
67.5°	252.1	251.5	249.5	248.8	249.5
70°	219.3	219.9	218.6	218.6	219.3
72.5°	189.7	189.1	188.4	188.4	189.7
75°	160.2	159.5	158.2	158.2	159.5
77.5°	133.3	130.0	129.3	130.7	128.7
80°	106.4	101.8	101.1	100.5	100.5
82.5°	74.8	72.9	73.5	72.9	74.2
85°	47.3	46.6	46.0	46.0	46.6
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)