

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: P292782

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292782
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-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2806.0 lumens
Efficiency: N/A
Efficacy: 111.3 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

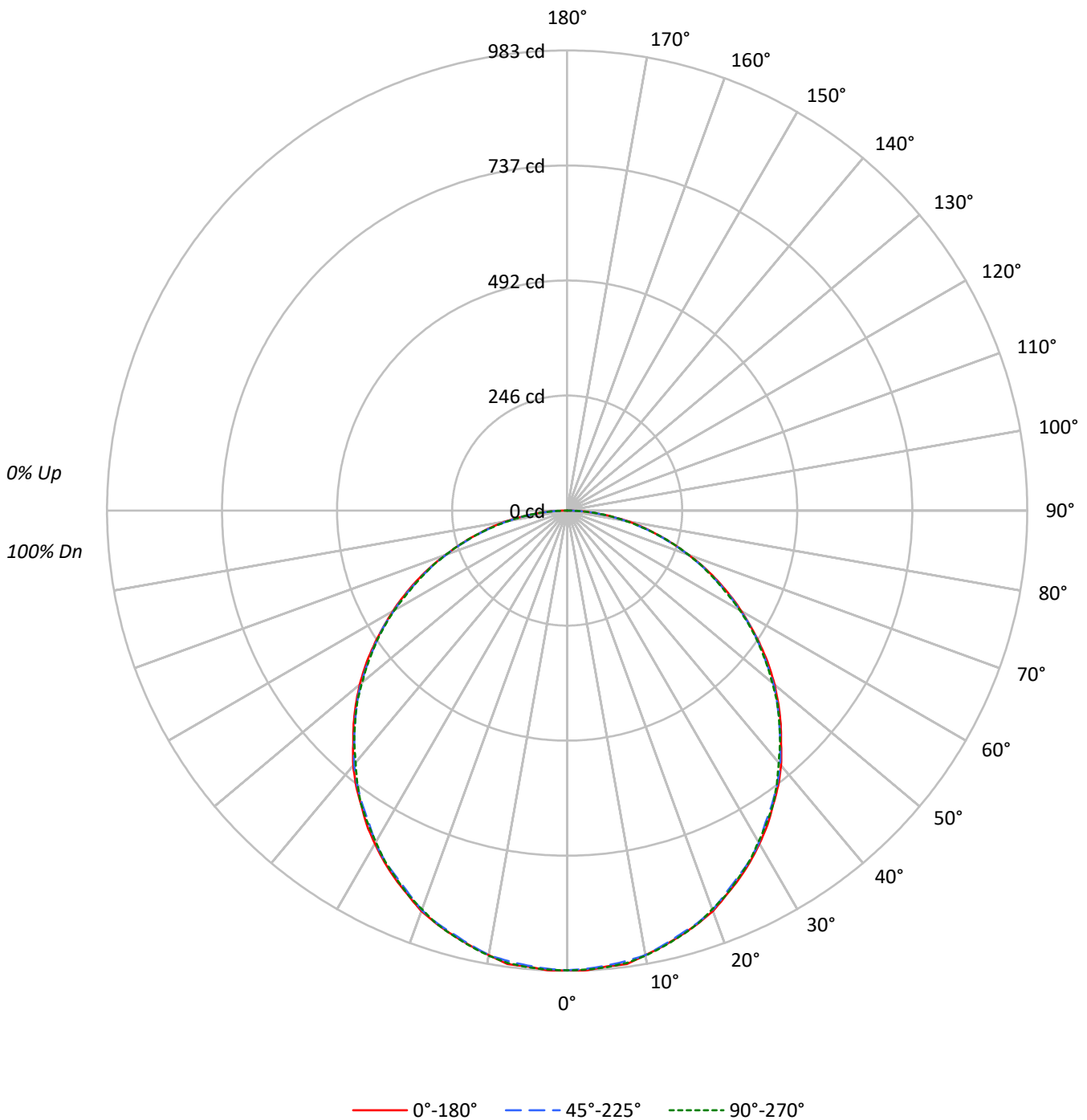
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2643	2643	2643
5°	2640	2635	2644
10°	2634	2634	2638
15°	2617	2610	2619
20°	2607	2600	2595
25°	2578	2564	2571
30°	2553	2545	2540
35°	2520	2509	2520
40°	2498	2486	2469
45°	2455	2439	2439
50°	2421	2408	2394
55°	2370	2354	2350
60°	2315	2301	2293
65°	2256	2230	2219
70°	2165	2159	2165
75°	2090	2065	2082
80°	2069	1967	1954
85°	1831	1782	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	3.3
10°-20°	265.1	9.4
20°-30°	399.2	14.2
30°-40°	479.0	17.1
40°-50°	495.7	17.7
50°-60°	449.2	16.0
60°-70°	348.2	12.4
70°-80°	211.4	7.5
80°-90°	65.4	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°	757.2	27.0
0°-40°	1236.2	44.1
0°-60°	2181.1	77.7
0°-90°	2806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	977	977	976	978	979	93
15°	939	939	937	941	940	265
25°	868	867	864	867	866	400
35°	767	767	764	765	767	481
45°	645	644	641	641	641	498
55°	505	504	502	501	501	452
65°	354	354	350	352	348	350
75°	201	200	199	199	200	214
85°	59	58	58	58	58	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.1	982.1	982.1	982.1	982.1
2.5°	983.0	978.8	979.7	981.3	981.3
5°	977.2	977.2	975.5	978.0	978.8
7.5°	977.2	973.1	970.6	973.1	974.7
10°	964.0	962.4	964.0	963.2	965.6
12.5°	952.5	950.8	950.8	953.3	953.3
15°	939.3	939.3	936.8	940.9	940.1
17.5°	926.1	926.1	924.5	924.5	926.1
20°	910.4	906.3	908.0	907.1	906.3
22.5°	889.0	886.6	884.9	887.4	888.2
25°	868.4	866.8	863.5	866.8	866.0
27.5°	846.2	844.5	843.7	842.1	843.7
30°	821.5	819.8	819.0	817.3	817.3
32.5°	796.7	793.4	789.3	793.4	792.6
35°	767.1	767.1	763.8	764.6	767.1
37.5°	740.7	739.1	737.4	734.9	735.8
40°	711.1	708.6	707.8	706.1	702.8
42.5°	676.4	676.4	673.2	674.0	673.2
45°	645.1	644.3	641.0	641.0	641.0
47.5°	612.2	611.4	608.9	607.2	608.9
50°	578.4	575.1	575.1	572.6	571.8
52.5°	543.0	540.5	537.2	538.0	536.4
55°	505.1	504.2	501.8	501.0	501.0
57.5°	467.2	468.0	466.3	463.0	463.9
60°	430.1	429.3	427.6	426.0	426.0
62.5°	392.2	392.2	388.9	388.9	385.6
65°	354.3	354.3	350.2	351.8	348.5
67.5°	316.4	315.6	313.1	312.3	313.1
70°	275.2	276.0	274.4	274.4	275.2
72.5°	238.1	237.3	236.5	236.5	238.1
75°	201.0	200.2	198.6	198.6	200.2
77.5°	167.3	163.1	162.3	164.0	161.5
80°	133.5	127.7	126.9	126.1	126.1
82.5°	93.9	91.5	92.3	91.5	93.1
85°	59.3	58.5	57.7	57.7	58.5
87.5°	28.0	26.4	26.4	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)