

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: P292780

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292780
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2772.0 lumens
Efficiency: N/A
Efficacy: 110.4 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

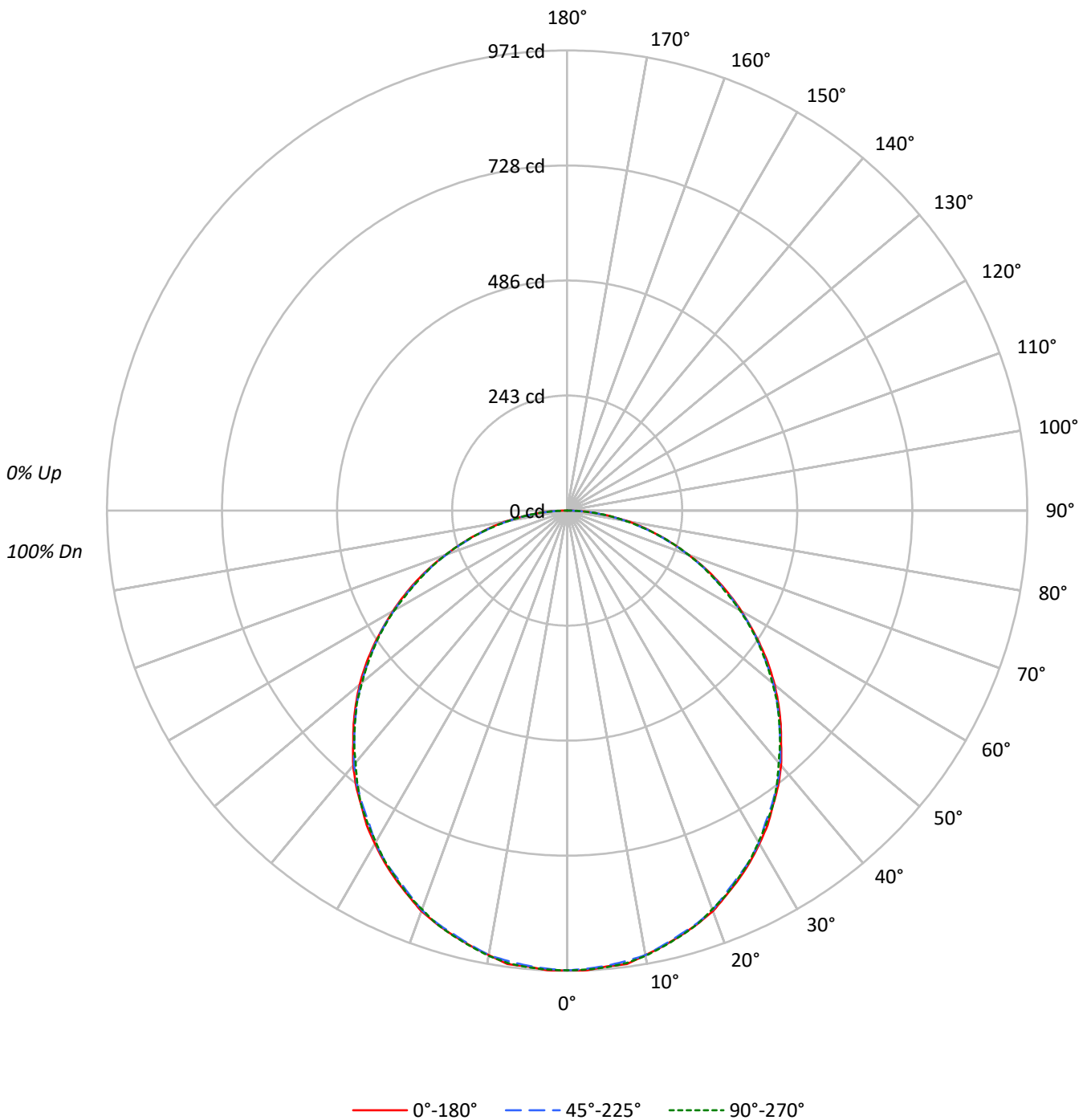
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2611	2611	2611
5°	2608	2603	2612
10°	2602	2602	2607
15°	2585	2578	2587
20°	2576	2569	2564
25°	2547	2533	2540
30°	2522	2514	2509
35°	2489	2479	2489
40°	2467	2456	2439
45°	2425	2410	2410
50°	2392	2378	2365
55°	2341	2326	2322
60°	2287	2273	2265
65°	2229	2202	2192
70°	2139	2132	2139
75°	2065	2040	2057
80°	2044	1942	1929
85°	1809	1760	1785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.3
10°-20°	261.9	9.4
20°-30°	394.3	14.2
30°-40°	473.2	17.1
40°-50°	489.7	17.7
50°-60°	443.7	16.0
60°-70°	343.9	12.4
70°-80°	208.8	7.5
80°-90°	64.6	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°	748.0	27.0
0°-40°	1221.2	44.1
0°-60°	2154.6	77.7
0°-90°	2772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	965	965	964	966	967	92
15°	928	928	926	930	929	262
25°	858	856	853	856	856	395
35°	758	758	754	755	758	475
45°	637	636	633	633	633	492
55°	499	498	496	495	495	446
65°	350	350	346	348	344	346
75°	199	198	196	196	198	211
85°	59	58	57	57	58	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.2	970.2	970.2	970.2	970.2
2.5°	971.0	967.0	967.8	969.4	969.4
5°	965.3	965.3	963.7	966.2	967.0
7.5°	965.3	961.3	958.8	961.3	962.9
10°	952.3	950.7	952.3	951.5	953.9
12.5°	940.9	939.3	939.3	941.7	941.7
15°	927.9	927.9	925.5	929.5	928.7
17.5°	914.9	914.9	913.2	913.2	914.9
20°	899.4	895.3	897.0	896.2	895.3
22.5°	878.2	875.8	874.2	876.6	877.4
25°	857.9	856.3	853.0	856.3	855.5
27.5°	835.9	834.3	833.5	831.9	833.5
30°	811.5	809.9	809.1	807.4	807.4
32.5°	787.1	783.8	779.8	783.8	783.0
35°	757.8	757.8	754.5	755.3	757.8
37.5°	731.7	730.1	728.5	726.0	726.9
40°	702.4	700.0	699.2	697.6	694.3
42.5°	668.3	668.3	665.0	665.8	665.0
45°	637.3	636.5	633.3	633.3	633.3
47.5°	604.8	603.9	601.5	599.9	601.5
50°	571.4	568.1	568.1	565.7	564.9
52.5°	536.4	533.9	530.7	531.5	529.9
55°	499.0	498.1	495.7	494.9	494.9
57.5°	461.5	462.3	460.7	457.4	458.3
60°	424.9	424.1	422.4	420.8	420.8
62.5°	387.4	387.4	384.2	384.2	380.9
65°	350.0	350.0	345.9	347.6	344.3
67.5°	312.6	311.7	309.3	308.5	309.3
70°	271.9	272.7	271.0	271.0	271.9
72.5°	235.2	234.4	233.6	233.6	235.2
75°	198.6	197.8	196.2	196.2	197.8
77.5°	165.2	161.2	160.3	162.0	159.5
80°	131.9	126.2	125.3	124.5	124.5
82.5°	92.8	90.3	91.2	90.3	92.0
85°	58.6	57.8	57.0	57.0	57.8
87.5°	27.7	26.0	26.0	25.2	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)