

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: P292733

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292733
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-LD5-36-FGW080-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2856.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

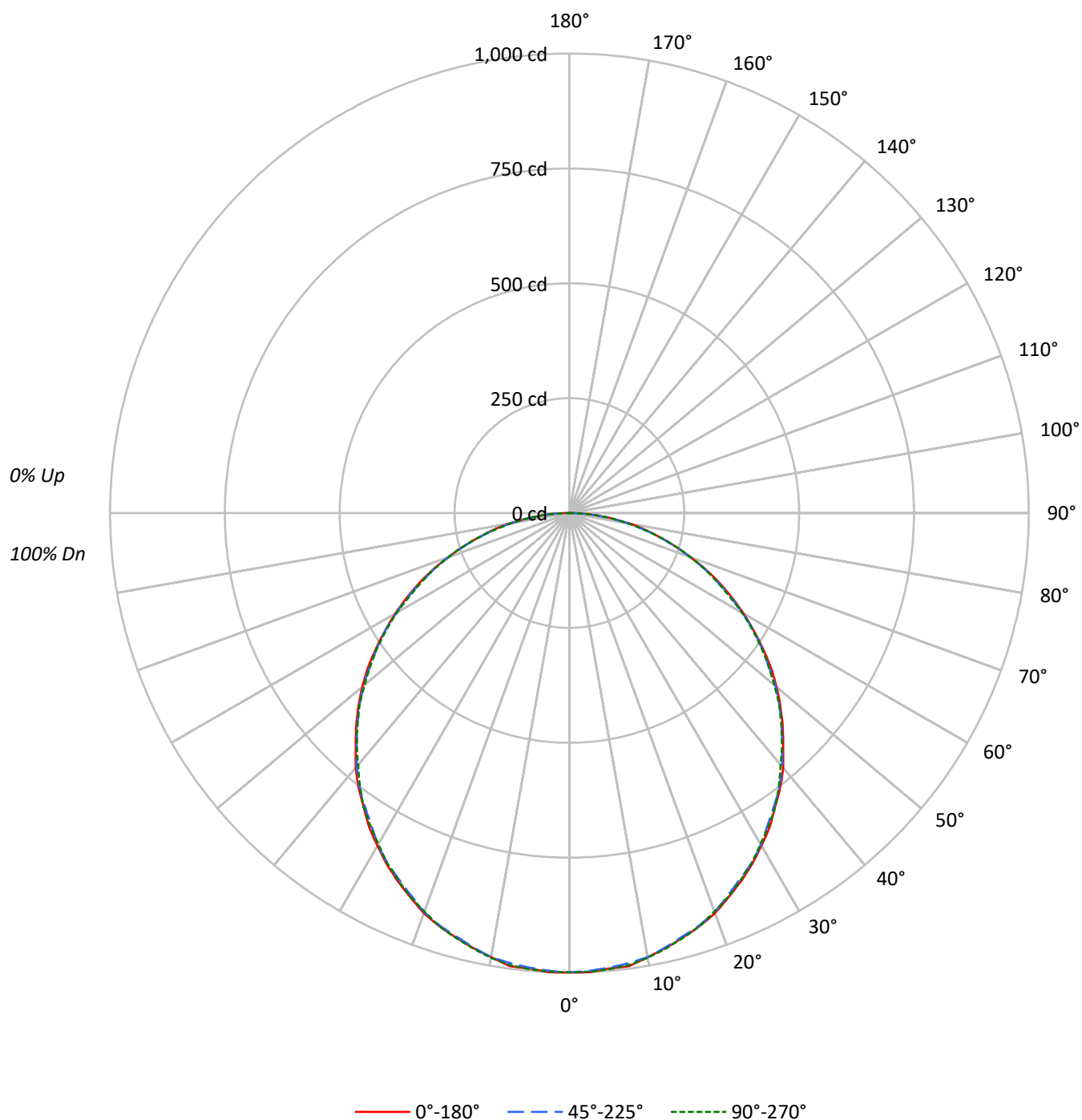
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2690	2690	2690
5°	2687	2682	2691
10°	2681	2681	2686
15°	2663	2656	2666
20°	2654	2647	2642
25°	2624	2610	2617
30°	2598	2590	2585
35°	2565	2554	2565
40°	2542	2531	2513
45°	2499	2483	2483
50°	2465	2451	2436
55°	2412	2396	2392
60°	2356	2342	2334
65°	2296	2269	2259
70°	2204	2198	2204
75°	2127	2101	2119
80°	2106	2001	1988
85°	1865	1812	1837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.3
10°-20°	269.8	9.4
20°-30°	406.3	14.2
30°-40°	487.6	17.1
40°-50°	504.5	17.7
50°-60°	457.2	16.0
60°-70°	354.4	12.4
70°-80°	215.1	7.5
80°-90°	66.6	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°	770.7	27.0
0°-40°	1258.2	44.1
0°-60°	2219.9	77.7
0°-90°	2856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	995	995	993	995	996	95
15°	956	956	954	958	957	270
25°	884	882	879	882	881	407
35°	781	781	777	778	781	489
45°	657	656	652	652	652	507
55°	514	513	511	510	510	460
65°	361	361	356	358	355	357
75°	205	204	202	202	204	218
85°	60	60	59	59	60	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.6	999.6	999.6	999.6	999.6
2.5°	1000.5	996.3	997.1	998.8	998.8
5°	994.6	994.6	992.9	995.4	996.3
7.5°	994.6	990.4	987.9	990.4	992.1
10°	981.2	979.5	981.2	980.3	982.9
12.5°	969.4	967.8	967.8	970.3	970.3
15°	956.0	956.0	953.5	957.7	956.9
17.5°	942.6	942.6	940.9	940.9	942.6
20°	926.7	922.5	924.2	923.3	922.5
22.5°	904.9	902.3	900.7	903.2	904.0
25°	883.9	882.2	878.9	882.2	881.4
27.5°	861.3	859.6	858.7	857.1	858.7
30°	836.1	834.4	833.6	831.9	831.9
32.5°	810.9	807.6	803.4	807.6	806.7
35°	780.7	780.7	777.4	778.2	780.7
37.5°	753.9	752.2	750.6	748.0	748.9
40°	723.7	721.2	720.4	718.7	715.3
42.5°	688.5	688.5	685.1	686.0	685.1
45°	656.6	655.8	652.4	652.4	652.4
47.5°	623.1	622.3	619.7	618.1	619.7
50°	588.7	585.4	585.4	582.8	582.0
52.5°	552.6	550.1	546.8	547.6	545.9
55°	514.1	513.2	510.7	509.9	509.9
57.5°	475.5	476.3	474.7	471.3	472.1
60°	437.8	436.9	435.2	433.6	433.6
62.5°	399.2	399.2	395.8	395.8	392.5
65°	360.6	360.6	356.4	358.1	354.7
67.5°	322.0	321.2	318.7	317.8	318.7
70°	280.1	280.9	279.3	279.3	280.1
72.5°	242.4	241.5	240.7	240.7	242.4
75°	204.6	203.8	202.1	202.1	203.8
77.5°	170.2	166.0	165.2	166.9	164.4
80°	135.9	130.0	129.1	128.3	128.3
82.5°	95.6	93.1	93.9	93.1	94.8
85°	60.4	59.5	58.7	58.7	59.5
87.5°	28.5	26.8	26.8	26.0	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)