

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: P292889

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292889
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-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2849.0 lumens
Efficiency: N/A
Efficacy: 98.5 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

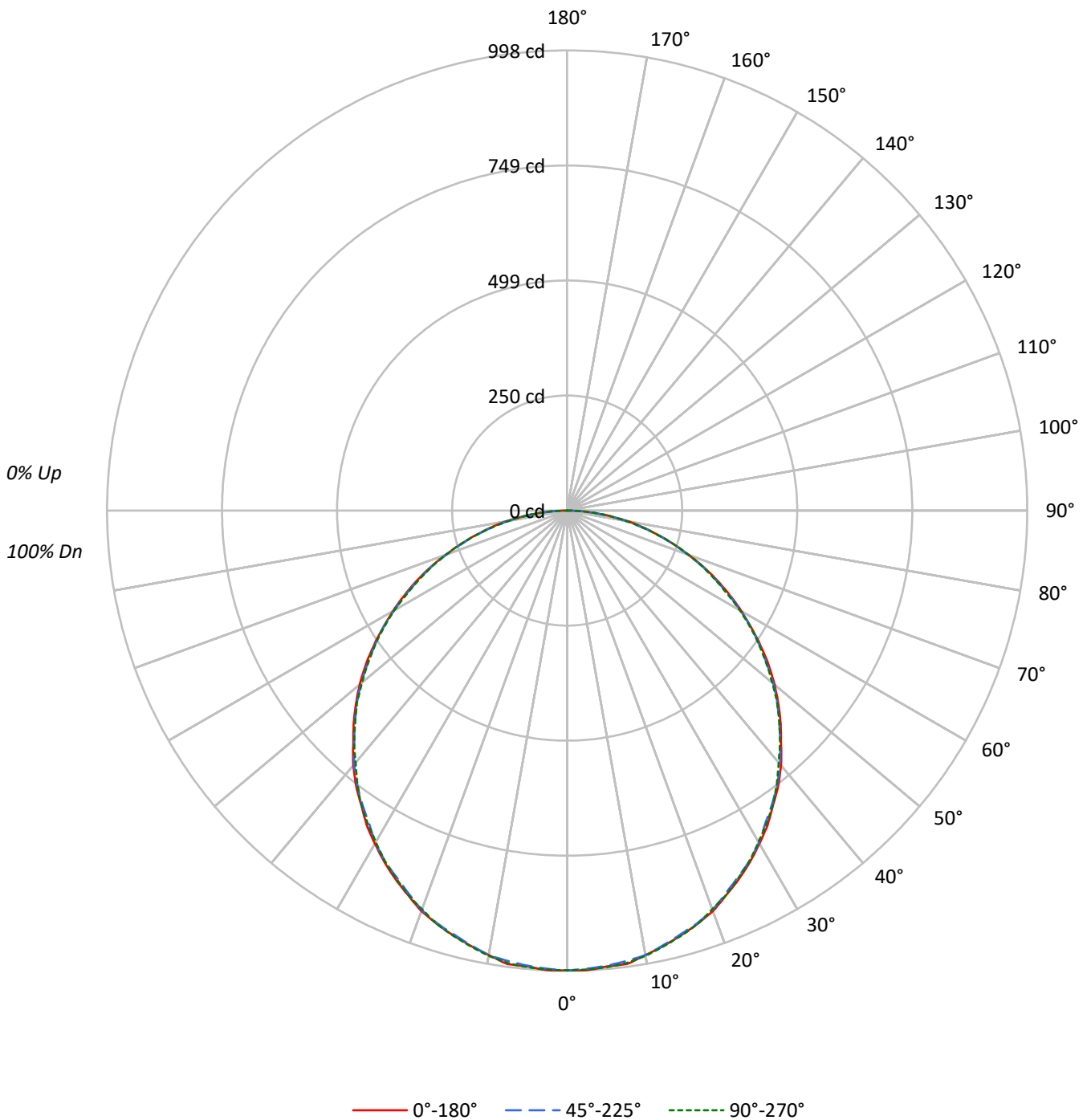
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2683	2683	2683
5°	2680	2676	2685
10°	2675	2675	2679
15°	2657	2650	2659
20°	2647	2640	2635
25°	2618	2603	2610
30°	2591	2584	2579
35°	2558	2548	2558
40°	2536	2524	2507
45°	2493	2477	2477
50°	2459	2444	2431
55°	2406	2390	2386
60°	2350	2337	2328
65°	2290	2264	2253
70°	2198	2192	2198
75°	2122	2096	2114
80°	2100	1996	1984
85°	1859	1809	1834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	3.3
10°-20°	269.2	9.4
20°-30°	405.3	14.2
30°-40°	486.4	17.1
40°-50°	503.3	17.7
50°-60°	456.0	16.0
60°-70°	353.5	12.4
70°-80°	214.6	7.5
80°-90°	66.4	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°	768.8	27.0
0°-40°	1255.2	44.1
0°-60°	2214.5	77.7
0°-90°	2849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	992	992	990	993	994	95
15°	954	954	951	955	954	269
25°	882	880	877	880	879	406
35°	779	779	776	776	779	488
45°	655	654	651	651	651	505
55°	513	512	510	509	509	459
65°	360	360	356	357	354	356
75°	204	203	202	202	203	217
85°	60	59	59	59	59	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.2	997.2	997.2	997.2	997.2
2.5°	998.0	993.8	994.7	996.3	996.3
5°	992.2	992.2	990.5	993.0	993.8
7.5°	992.2	988.0	985.5	988.0	989.6
10°	978.8	977.1	978.8	977.9	980.4
12.5°	967.1	965.4	965.4	967.9	967.9
15°	953.7	953.7	951.2	955.3	954.5
17.5°	940.3	940.3	938.6	938.6	940.3
20°	924.4	920.2	921.9	921.0	920.2
22.5°	902.6	900.1	898.5	901.0	901.8
25°	881.7	880.1	876.7	880.1	879.2
27.5°	859.1	857.5	856.6	855.0	856.6
30°	834.0	832.4	831.5	829.9	829.9
32.5°	809.0	805.6	801.4	805.6	804.8
35°	778.8	778.8	775.5	776.3	778.8
37.5°	752.1	750.4	748.7	746.2	747.0
40°	721.9	719.4	718.6	716.9	713.6
42.5°	686.8	686.8	683.5	684.3	683.5
45°	655.0	654.2	650.8	650.8	650.8
47.5°	621.6	620.7	618.2	616.5	618.2
50°	587.3	583.9	583.9	581.4	580.6
52.5°	551.3	548.8	545.4	546.3	544.6
55°	512.8	512.0	509.5	508.6	508.6
57.5°	474.3	475.2	473.5	470.1	471.0
60°	436.7	435.8	434.2	432.5	432.5
62.5°	398.2	398.2	394.9	394.9	391.5
65°	359.7	359.7	355.5	357.2	353.9
67.5°	321.2	320.4	317.9	317.1	317.9
70°	279.4	280.2	278.6	278.6	279.4
72.5°	241.8	240.9	240.1	240.1	241.8
75°	204.1	203.3	201.6	201.6	203.3
77.5°	169.8	165.6	164.8	166.5	164.0
80°	135.5	129.7	128.8	128.0	128.0
82.5°	95.4	92.9	93.7	92.9	94.5
85°	60.2	59.4	58.6	58.6	59.4
87.5°	28.4	26.8	26.8	25.9	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)