

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: P292888

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292888
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2836.0 lumens
Efficiency: N/A
Efficacy: 98.4 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

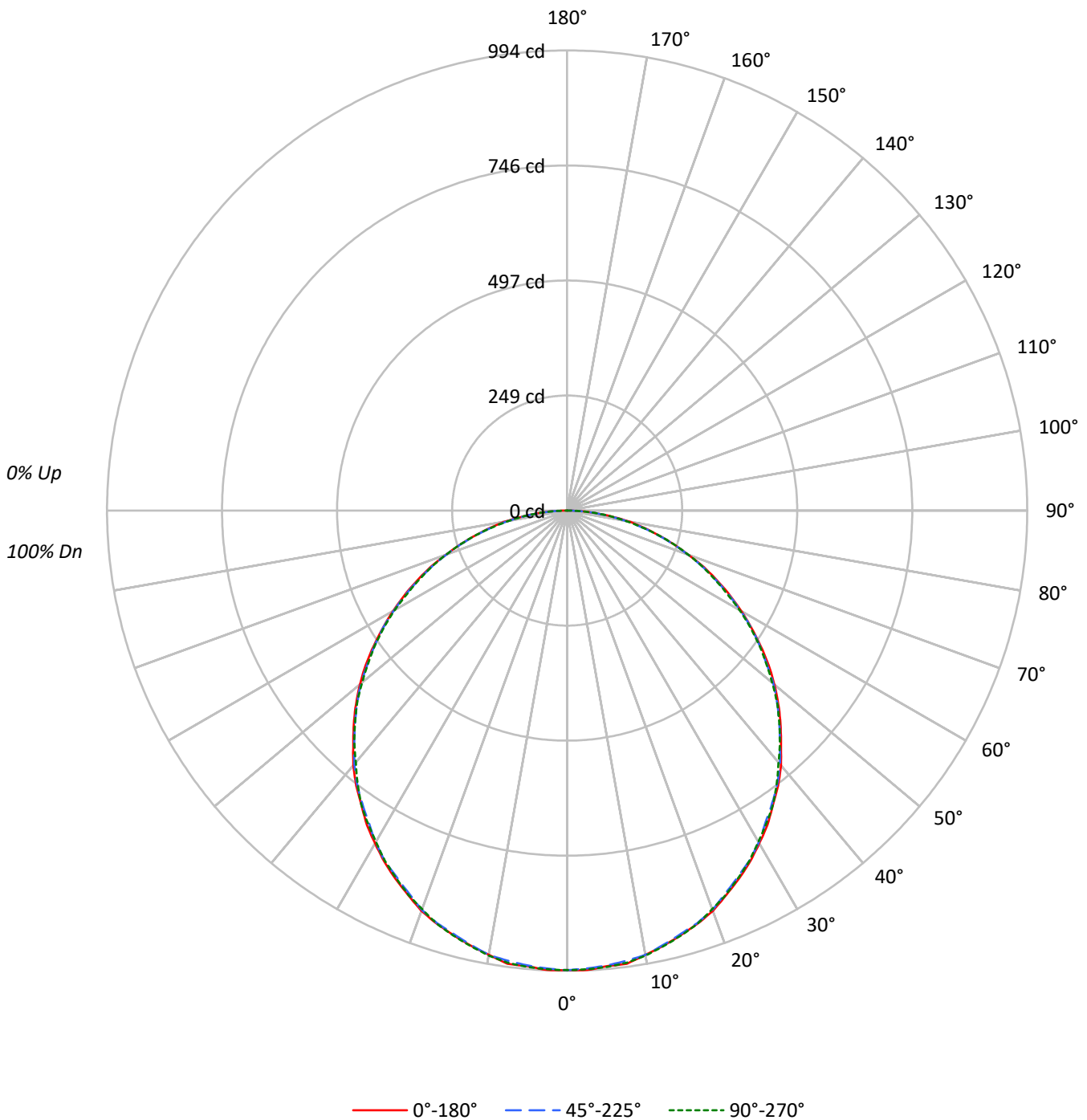
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2671	2671	2671
5°	2668	2663	2672
10°	2662	2662	2667
15°	2645	2638	2647
20°	2635	2628	2623
25°	2606	2591	2599
30°	2580	2572	2567
35°	2547	2536	2547
40°	2525	2513	2495
45°	2481	2466	2466
50°	2447	2434	2419
55°	2395	2379	2375
60°	2340	2326	2317
65°	2280	2253	2243
70°	2188	2182	2188
75°	2113	2087	2104
80°	2091	1987	1974
85°	1853	1800	1825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.3
10°-20°	267.9	9.4
20°-30°	403.4	14.2
30°-40°	484.2	17.1
40°-50°	501.0	17.7
50°-60°	454.0	16.0
60°-70°	351.9	12.4
70°-80°	213.6	7.5
80°-90°	66.1	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°	765.3	27.0
0°-40°	1249.4	44.1
0°-60°	2204.4	77.7
0°-90°	2836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	988	988	986	988	989	94
15°	949	949	947	951	950	268
25°	878	876	873	876	875	405
35°	775	775	772	773	775	486
45°	652	651	648	648	648	503
55°	510	510	507	506	506	457
65°	358	358	354	356	352	354
75°	203	202	201	201	202	216
85°	60	59	58	58	59	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.6	992.6	992.6	992.6	992.6
2.5°	993.5	989.3	990.1	991.8	991.8
5°	987.6	987.6	986.0	988.5	989.3
7.5°	987.6	983.5	981.0	983.5	985.1
10°	974.3	972.6	974.3	973.5	976.0
12.5°	962.6	961.0	961.0	963.5	963.5
15°	949.3	949.3	946.8	951.0	950.2
17.5°	936.0	936.0	934.3	934.3	936.0
20°	920.2	916.0	917.7	916.8	916.0
22.5°	898.5	896.0	894.4	896.9	897.7
25°	877.7	876.0	872.7	876.0	875.2
27.5°	855.2	853.6	852.7	851.1	852.7
30°	830.2	828.6	827.7	826.1	826.1
32.5°	805.3	801.9	797.8	801.9	801.1
35°	775.3	775.3	772.0	772.8	775.3
37.5°	748.6	747.0	745.3	742.8	743.6
40°	718.7	716.2	715.3	713.7	710.3
42.5°	683.7	683.7	680.3	681.2	680.3
45°	652.0	651.2	647.9	647.9	647.9
47.5°	618.7	617.9	615.4	613.7	615.4
50°	584.6	581.3	581.3	578.8	577.9
52.5°	548.8	546.3	542.9	543.8	542.1
55°	510.5	509.6	507.1	506.3	506.3
57.5°	472.2	473.0	471.3	468.0	468.8
60°	434.7	433.9	432.2	430.5	430.5
62.5°	396.4	396.4	393.1	393.1	389.7
65°	358.1	358.1	353.9	355.6	352.2
67.5°	319.8	318.9	316.4	315.6	316.4
70°	278.1	279.0	277.3	277.3	278.1
72.5°	240.7	239.8	239.0	239.0	240.7
75°	203.2	202.4	200.7	200.7	202.4
77.5°	169.0	164.9	164.0	165.7	163.2
80°	134.9	129.1	128.2	127.4	127.4
82.5°	94.9	92.4	93.3	92.4	94.1
85°	60.0	59.1	58.3	58.3	59.1
87.5°	28.3	26.6	26.6	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)