

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: P292734

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292734
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-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3022.0 lumens
Efficiency: N/A
Efficacy: 107.6 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

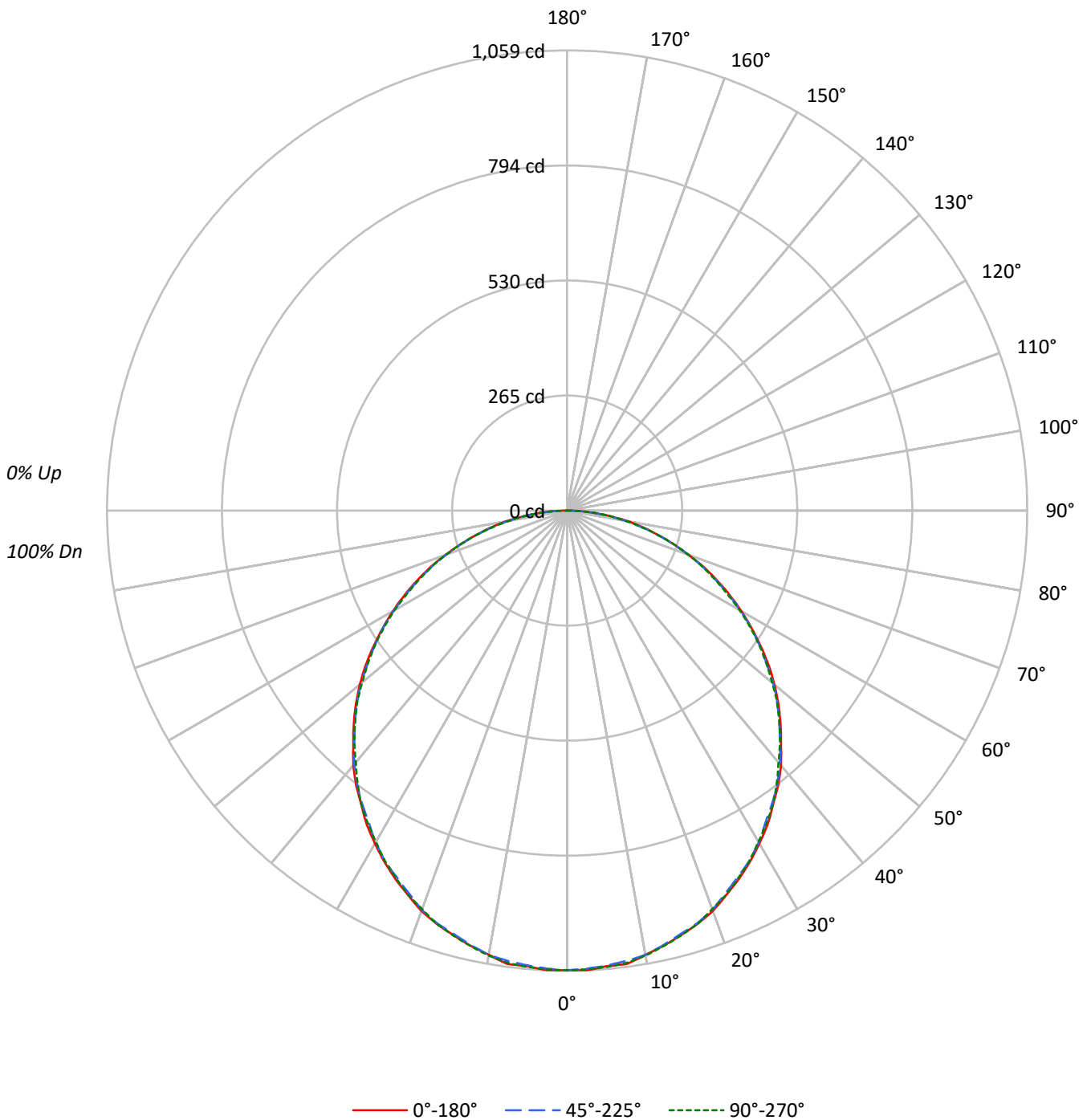
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2846	2846	2846
5°	2843	2838	2848
10°	2837	2837	2842
15°	2818	2811	2821
20°	2808	2800	2795
25°	2777	2761	2769
30°	2749	2741	2735
35°	2714	2702	2714
40°	2690	2677	2659
45°	2644	2627	2627
50°	2608	2593	2578
55°	2552	2535	2531
60°	2493	2478	2469
65°	2430	2401	2390
70°	2332	2325	2332
75°	2251	2224	2242
80°	2228	2118	2104
85°	1973	1917	1945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.3
10°-20°	285.5	9.4
20°-30°	429.9	14.2
30°-40°	515.9	17.1
40°-50°	533.8	17.7
50°-60°	483.7	16.0
60°-70°	375.0	12.4
70°-80°	227.6	7.5
80°-90°	70.5	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°	815.5	27.0
0°-40°	1331.4	44.1
0°-60°	2349.0	77.7
0°-90°	3022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1052	1052	1051	1053	1054	100
15°	1012	1012	1009	1013	1012	286
25°	935	934	930	934	933	431
35°	826	826	823	824	826	518
45°	695	694	690	690	690	536
55°	544	543	540	540	540	486
65°	382	382	377	379	375	377
75°	216	216	214	214	216	230
85°	64	63	62	62	63	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.7	1057.7	1057.7	1057.7	1057.7
2.5°	1058.6	1054.2	1055.1	1056.8	1056.8
5°	1052.4	1052.4	1050.6	1053.3	1054.2
7.5°	1052.4	1048.0	1045.3	1048.0	1049.7
10°	1038.2	1036.4	1038.2	1037.3	1040.0
12.5°	1025.8	1024.0	1024.0	1026.7	1026.7
15°	1011.6	1011.6	1008.9	1013.4	1012.5
17.5°	997.4	997.4	995.6	995.6	997.4
20°	980.5	976.1	977.9	977.0	976.1
22.5°	957.5	954.8	953.0	955.7	956.6
25°	935.3	933.5	929.9	933.5	932.6
27.5°	911.3	909.5	908.7	906.9	908.7
30°	884.7	882.9	882.0	880.3	880.3
32.5°	858.1	854.5	850.1	854.5	853.6
35°	826.1	826.1	822.6	823.5	826.1
37.5°	797.7	796.0	794.2	791.5	792.4
40°	765.8	763.1	762.2	760.5	756.9
42.5°	728.5	728.5	725.0	725.9	725.0
45°	694.8	693.9	690.4	690.4	690.4
47.5°	659.3	658.4	655.8	654.0	655.8
50°	622.9	619.4	619.4	616.7	615.8
52.5°	584.8	582.1	578.6	579.4	577.7
55°	543.9	543.1	540.4	539.5	539.5
57.5°	503.1	504.0	502.2	498.7	499.6
60°	463.2	462.3	460.5	458.8	458.8
62.5°	422.4	422.4	418.8	418.8	415.3
65°	381.6	381.6	377.1	378.9	375.4
67.5°	340.7	339.9	337.2	336.3	337.2
70°	296.4	297.3	295.5	295.5	296.4
72.5°	256.4	255.6	254.7	254.7	256.4
75°	216.5	215.6	213.9	213.9	215.6
77.5°	180.1	175.7	174.8	176.6	173.9
80°	143.8	137.5	136.7	135.8	135.8
82.5°	101.2	98.5	99.4	98.5	100.3
85°	63.9	63.0	62.1	62.1	63.0
87.5°	30.2	28.4	28.4	27.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)