

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: P292787

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292787
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-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3016.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

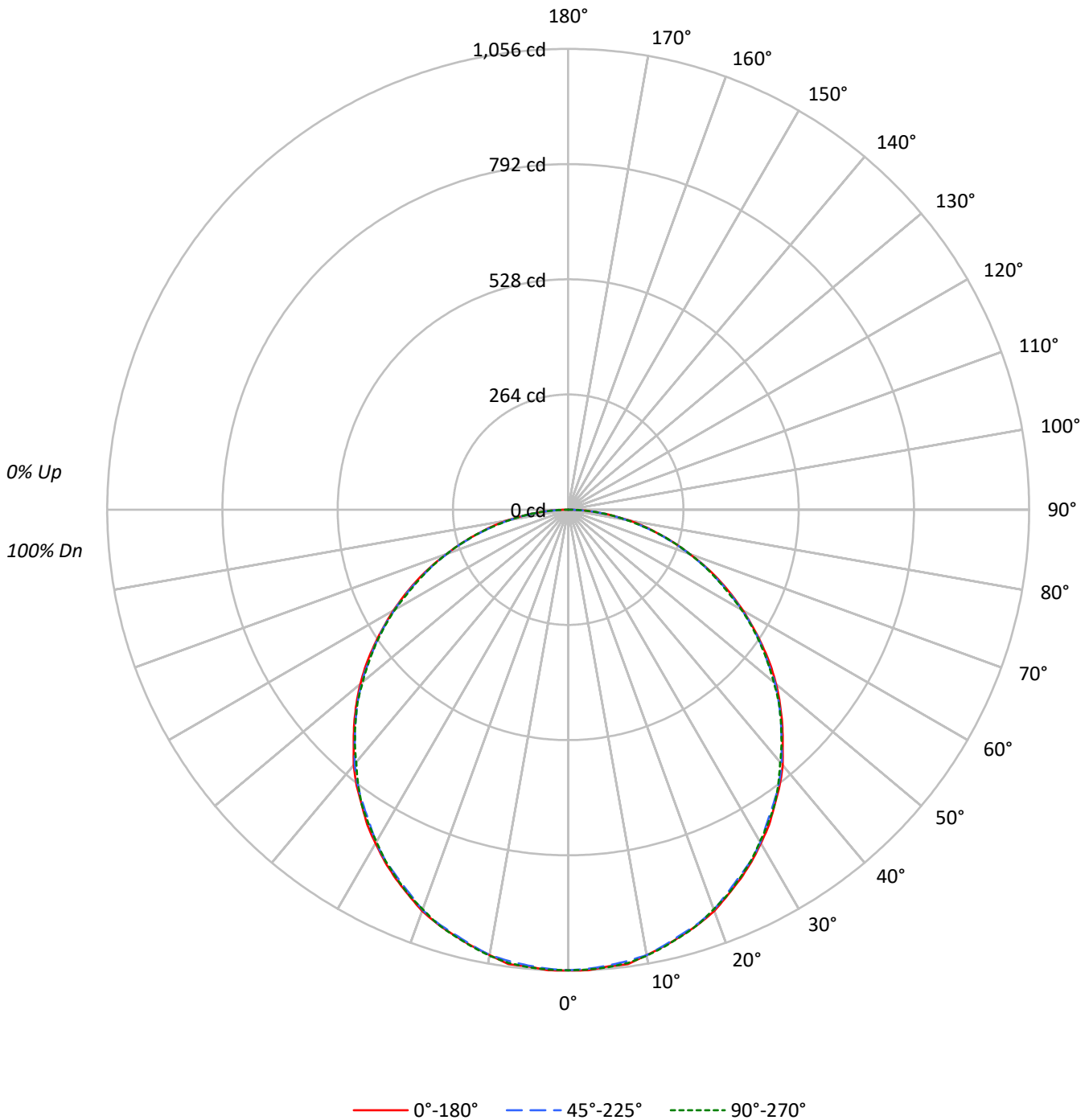
Input Watts (W): 28.458
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2841	2841	2841
5°	2837	2832	2842
10°	2831	2831	2836
15°	2813	2805	2815
20°	2802	2795	2790
25°	2771	2756	2764
30°	2743	2735	2730
35°	2709	2697	2709
40°	2685	2672	2654
45°	2639	2622	2622
50°	2603	2588	2573
55°	2547	2530	2526
60°	2488	2474	2464
65°	2425	2397	2385
70°	2327	2320	2327
75°	2247	2219	2237
80°	2224	2114	2100
85°	1970	1914	1942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.3
10°-20°	284.9	9.4
20°-30°	429.1	14.2
30°-40°	514.9	17.1
40°-50°	532.8	17.7
50°-60°	482.8	16.0
60°-70°	374.2	12.4
70°-80°	227.2	7.5
80°-90°	70.3	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°	813.8	27.0
0°-40°	1328.7	44.1
0°-60°	2344.3	77.7
0°-90°	3016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1050	1050	1048	1051	1052	100
15°	1010	1010	1007	1011	1010	285
25°	933	932	928	932	931	430
35°	824	824	821	822	824	517
45°	693	692	689	689	689	535
55°	543	542	539	538	538	485
65°	381	381	376	378	375	377
75°	216	215	213	213	215	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°	1055.6	1055.6	1055.6	1055.6	1055.6
2.5°	1056.5	1052.1	1053.0	1054.7	1054.7
5°	1050.3	1050.3	1048.5	1051.2	1052.1
7.5°	1050.3	1045.9	1043.2	1045.9	1047.7
10°	1036.1	1034.4	1036.1	1035.3	1037.9
12.5°	1023.7	1022.0	1022.0	1024.6	1024.6
15°	1009.6	1009.6	1006.9	1011.3	1010.5
17.5°	995.4	995.4	993.6	993.6	995.4
20°	978.6	974.2	975.9	975.0	974.2
22.5°	955.6	952.9	951.1	953.8	954.7
25°	933.4	931.6	928.1	931.6	930.8
27.5°	909.5	907.7	906.8	905.1	906.8
30°	882.9	881.2	880.3	878.5	878.5
32.5°	856.4	852.8	848.4	852.8	851.9
35°	824.5	824.5	820.9	821.8	824.5
37.5°	796.1	794.4	792.6	789.9	790.8
40°	764.3	761.6	760.7	759.0	755.4
42.5°	727.1	727.1	723.5	724.4	723.5
45°	693.4	692.5	689.0	689.0	689.0
47.5°	658.0	657.1	654.5	652.7	654.5
50°	621.7	618.1	618.1	615.5	614.6
52.5°	583.6	580.9	577.4	578.3	576.5
55°	542.9	542.0	539.3	538.4	538.4
57.5°	502.1	503.0	501.2	497.7	498.6
60°	462.3	461.4	459.6	457.9	457.9
62.5°	421.5	421.5	418.0	418.0	414.5
65°	380.8	380.8	376.4	378.1	374.6
67.5°	340.1	339.2	336.5	335.6	336.5
70°	295.8	296.7	294.9	294.9	295.8
72.5°	255.9	255.1	254.2	254.2	255.9
75°	216.1	215.2	213.4	213.4	215.2
77.5°	179.8	175.3	174.5	176.2	173.6
80°	143.5	137.3	136.4	135.5	135.5
82.5°	101.0	98.3	99.2	98.3	100.1
85°	63.8	62.9	62.0	62.0	62.9
87.5°	30.1	28.3	28.3	27.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)