

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: P292786

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292786
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-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: 2951.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

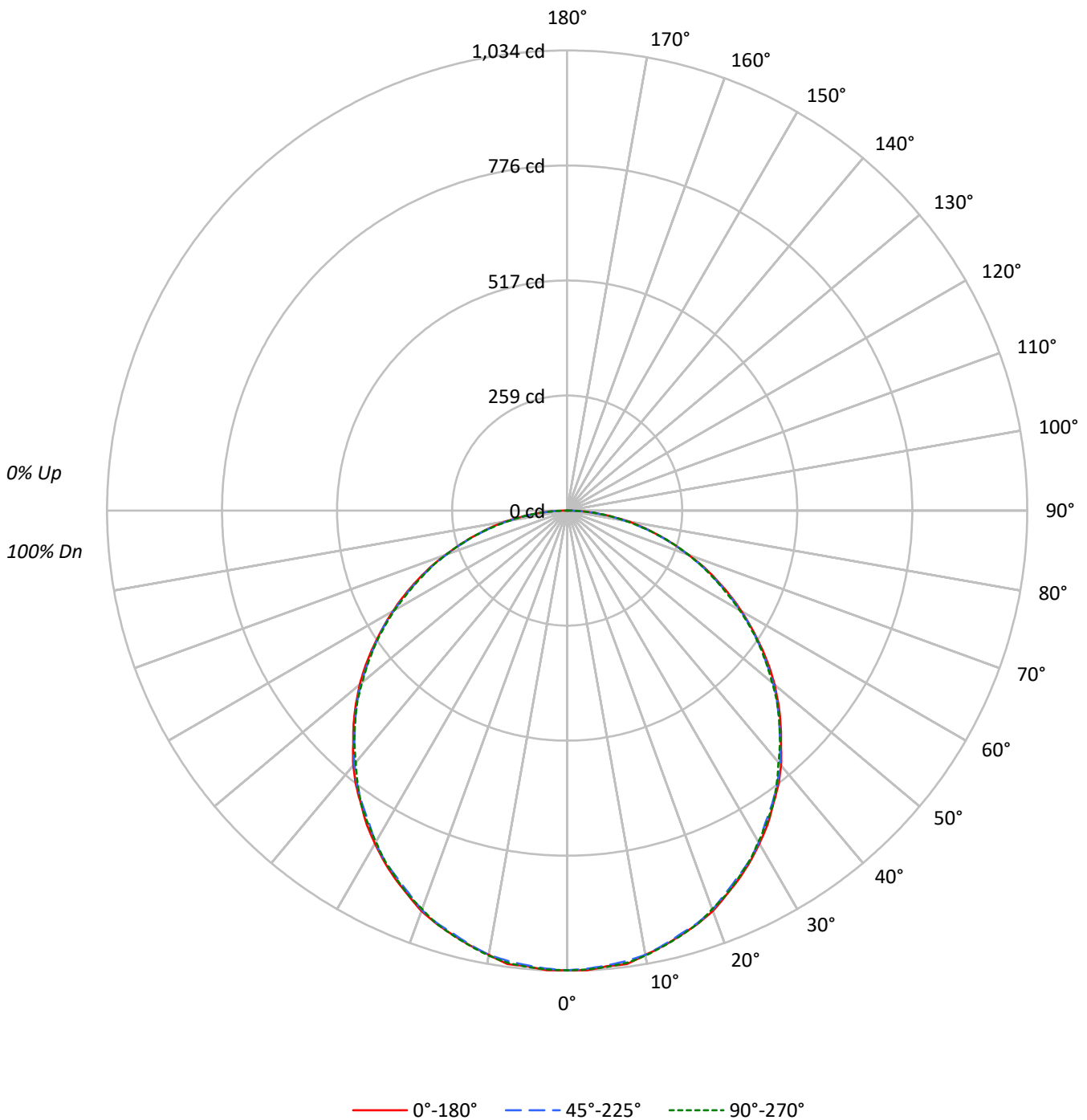
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2780	2780	2780
5°	2776	2771	2781
10°	2770	2770	2775
15°	2752	2745	2754
20°	2742	2735	2730
25°	2712	2696	2704
30°	2684	2676	2671
35°	2650	2639	2650
40°	2627	2615	2596
45°	2582	2565	2565
50°	2547	2532	2518
55°	2492	2476	2472
60°	2434	2420	2411
65°	2372	2345	2334
70°	2277	2270	2277
75°	2198	2171	2190
80°	2176	2067	2055
85°	1927	1874	1899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	3.3
10°-20°	278.8	9.4
20°-30°	419.8	14.2
30°-40°	503.8	17.1
40°-50°	521.3	17.7
50°-60°	472.4	16.0
60°-70°	366.2	12.4
70°-80°	222.3	7.5
80°-90°	68.8	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°	796.3	27.0
0°-40°	1300.1	44.1
0°-60°	2293.7	77.7
0°-90°	2951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1028	1028	1026	1028	1029	98
15°	988	988	985	990	989	279
25°	913	912	908	912	911	421
35°	807	807	803	804	807	506
45°	678	678	674	674	674	524
55°	531	530	528	527	527	475
65°	373	373	368	370	366	368
75°	211	211	209	209	211	225
85°	62	62	61	61	62	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.9	1032.9	1032.9	1032.9	1032.9
2.5°	1033.7	1029.4	1030.3	1032.0	1032.0
5°	1027.7	1027.7	1025.9	1028.5	1029.4
7.5°	1027.7	1023.3	1020.7	1023.3	1025.1
10°	1013.8	1012.1	1013.8	1012.9	1015.5
12.5°	1001.7	1000.0	1000.0	1002.5	1002.5
15°	987.8	987.8	985.2	989.6	988.7
17.5°	974.0	974.0	972.2	972.2	974.0
20°	957.5	953.2	954.9	954.0	953.2
22.5°	935.0	932.4	930.6	933.2	934.1
25°	913.3	911.6	908.1	911.6	910.7
27.5°	889.9	888.2	887.3	885.6	887.3
30°	863.9	862.2	861.3	859.6	859.6
32.5°	837.9	834.4	830.1	834.4	833.6
35°	806.7	806.7	803.3	804.1	806.7
37.5°	779.0	777.3	775.5	772.9	773.8
40°	747.8	745.2	744.3	742.6	739.1
42.5°	711.4	711.4	707.9	708.8	707.9
45°	678.5	677.6	674.1	674.1	674.1
47.5°	643.8	642.9	640.3	638.6	640.3
50°	608.3	604.8	604.8	602.2	601.4
52.5°	571.0	568.4	565.0	565.8	564.1
55°	531.2	530.3	527.7	526.8	526.8
57.5°	491.3	492.2	490.4	487.0	487.8
60°	452.3	451.5	449.7	448.0	448.0
62.5°	412.5	412.5	409.0	409.0	405.5
65°	372.6	372.6	368.3	370.0	366.5
67.5°	332.7	331.9	329.3	328.4	329.3
70°	289.4	290.3	288.5	288.5	289.4
72.5°	250.4	249.6	248.7	248.7	250.4
75°	211.4	210.6	208.8	208.8	210.6
77.5°	175.9	171.6	170.7	172.4	169.8
80°	140.4	134.3	133.4	132.6	132.6
82.5°	98.8	96.2	97.0	96.2	97.9
85°	62.4	61.5	60.7	60.7	61.5
87.5°	29.5	27.7	27.7	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)