

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: P292788

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292788
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3070.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

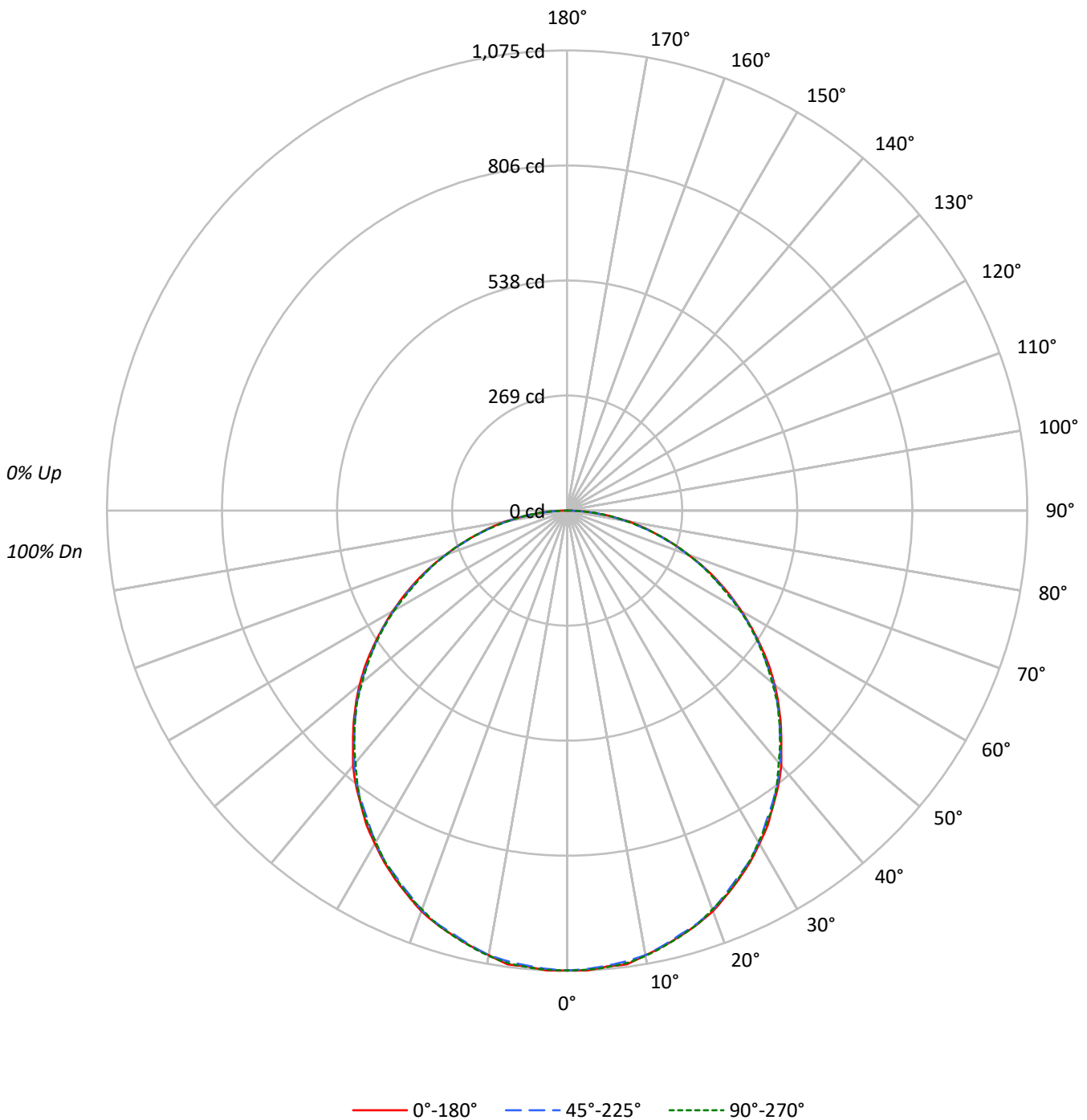
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292788

CATALOG NUMBER: 22GR-LD5-36-FGW080-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P292788

CATALOG NUMBER: 22GR-LD5-36-FGW080-UNV-L82765-W2A1-U-4500K

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°	2891	2891	2891
5°	2888	2883	2893
10°	2882	2882	2887
15°	2863	2855	2866
20°	2853	2845	2840
25°	2821	2805	2813
30°	2793	2784	2779
35°	2757	2745	2757
40°	2733	2720	2701
45°	2686	2669	2669
50°	2649	2634	2619
55°	2593	2576	2571
60°	2533	2518	2508
65°	2468	2439	2428
70°	2369	2362	2369
75°	2287	2258	2278
80°	2263	2151	2137
85°	2004	1948	1976



TEST NUMBER: P292788

CATALOG NUMBER: 22GR-LD5-36-FGW080-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	3.3
10°-20°	290.0	9.4
20°-30°	436.7	14.2
30°-40°	524.1	17.1
40°-50°	542.3	17.7
50°-60°	491.4	16.0
60°-70°	380.9	12.4
70°-80°	231.2	7.5
80°-90°	71.6	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°	828.4	27.0
0°-40°	1352.5	44.1
0°-60°	2386.2	77.7
0°-90°	3070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1069	1069	1067	1070	1071	102
15°	1028	1028	1025	1030	1029	290
25°	950	948	945	948	947	438
35°	839	839	836	836	839	526
45°	706	705	701	701	701	545
55°	553	552	549	548	548	494
65°	388	388	383	385	381	383
75°	220	219	217	217	219	234
85°	65	64	63	63	64	74
90°	0	0	0	0	0	



TEST NUMBER: P292788

CATALOG NUMBER: 22GR-LD5-36-FGW080-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074.5	1074.5	1074.5	1074.5	1074.5
2.5°	1075.4	1070.9	1071.8	1073.6	1073.6
5°	1069.1	1069.1	1067.3	1070.0	1070.9
7.5°	1069.1	1064.6	1061.9	1064.6	1066.4
10°	1054.7	1052.9	1054.7	1053.8	1056.5
12.5°	1042.1	1040.3	1040.3	1043.0	1043.0
15°	1027.7	1027.7	1024.9	1029.5	1028.6
17.5°	1013.2	1013.2	1011.4	1011.4	1013.2
20°	996.1	991.6	993.4	992.5	991.6
22.5°	972.7	970.0	968.2	970.9	971.8
25°	950.1	948.3	944.7	948.3	947.4
27.5°	925.8	924.0	923.1	921.3	923.1
30°	898.7	896.9	896.0	894.2	894.2
32.5°	871.7	868.1	863.6	868.1	867.2
35°	839.3	839.3	835.6	836.5	839.3
37.5°	810.4	808.6	806.8	804.1	805.0
40°	778.0	775.2	774.3	772.5	768.9
42.5°	740.1	740.1	736.5	737.4	736.5
45°	705.8	704.9	701.3	701.3	701.3
47.5°	669.8	668.9	666.2	664.4	666.2
50°	632.8	629.2	629.2	626.5	625.6
52.5°	594.1	591.4	587.7	588.6	586.8
55°	552.6	551.7	549.0	548.1	548.1
57.5°	511.1	512.0	510.2	506.6	507.5
60°	470.6	469.7	467.9	466.0	466.0
62.5°	429.1	429.1	425.5	425.5	421.9
65°	387.6	387.6	383.1	384.9	381.3
67.5°	346.2	345.3	342.6	341.6	342.6
70°	301.1	302.0	300.2	300.2	301.1
72.5°	260.5	259.6	258.7	258.7	260.5
75°	220.0	219.1	217.2	217.2	219.1
77.5°	183.0	178.5	177.6	179.4	176.7
80°	146.0	139.7	138.8	137.9	137.9
82.5°	102.8	100.1	101.0	100.1	101.9
85°	64.9	64.0	63.1	63.1	64.0
87.5°	30.6	28.8	28.8	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)