

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: P292789

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292789
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3111.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

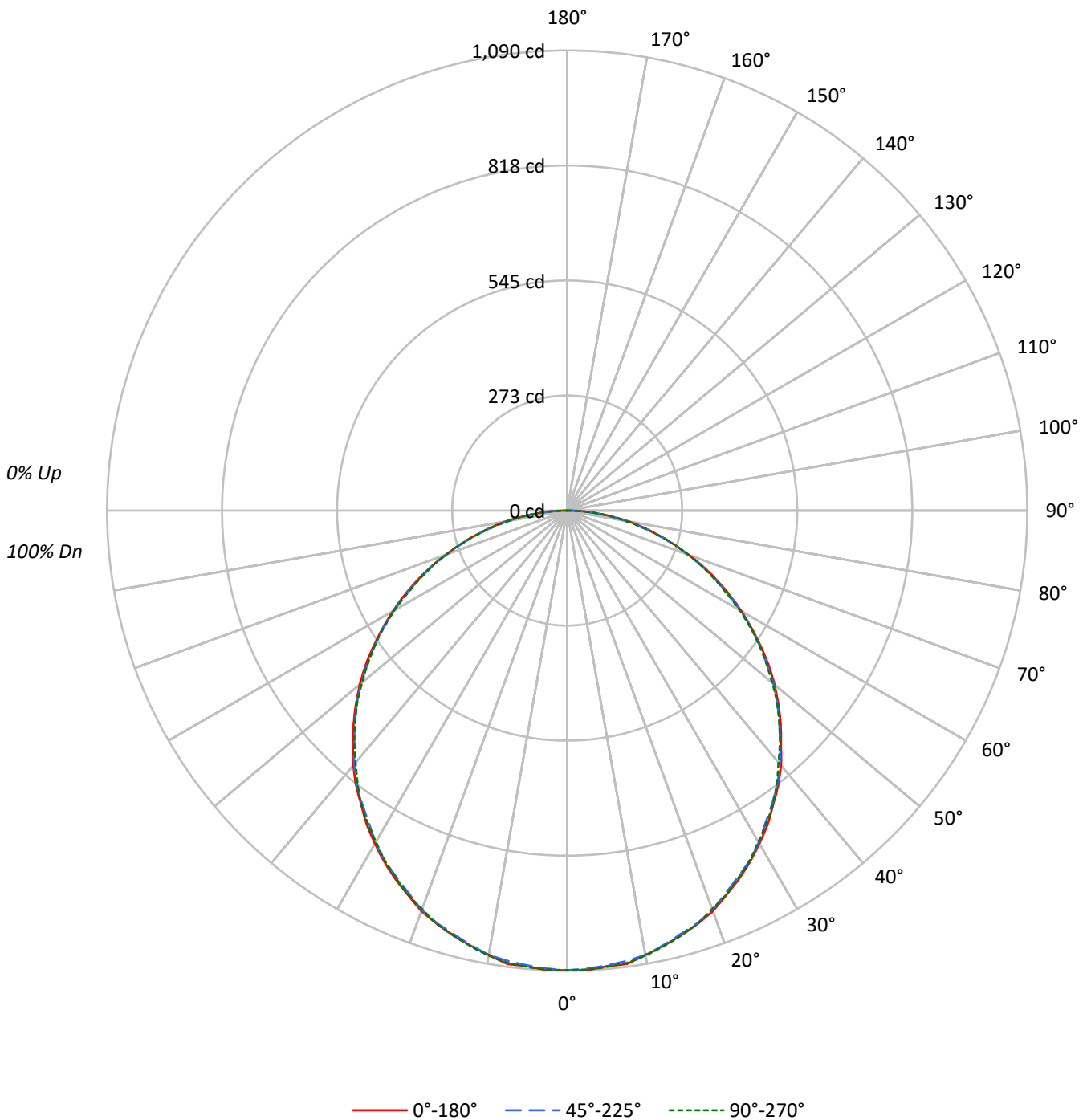
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2930	2930	2930
5°	2927	2922	2931
10°	2920	2920	2925
15°	2901	2893	2904
20°	2891	2883	2877
25°	2859	2842	2851
30°	2830	2821	2816
35°	2794	2782	2794
40°	2769	2757	2737
45°	2722	2705	2705
50°	2685	2669	2654
55°	2627	2610	2606
60°	2566	2552	2542
65°	2501	2472	2460
70°	2400	2393	2400
75°	2318	2289	2308
80°	2294	2180	2166
85°	2032	1973	2004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	3.3
10°-20°	293.9	9.4
20°-30°	442.6	14.2
30°-40°	531.1	17.1
40°-50°	549.6	17.7
50°-60°	498.0	16.0
60°-70°	386.0	12.4
70°-80°	234.4	7.5
80°-90°	72.5	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°	839.5	27.0
0°-40°	1370.6	44.1
0°-60°	2418.1	77.7
0°-90°	3111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1083	1083	1082	1084	1085	103
15°	1041	1041	1039	1043	1042	294
25°	963	961	957	961	960	444
35°	850	850	847	848	850	533
45°	715	714	711	711	711	552
55°	560	559	556	555	555	501
65°	393	393	388	390	386	388
75°	223	222	220	220	222	237
85°	66	65	64	64	65	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1088.9	1088.9	1088.9	1088.9	1088.9
2.5°	1089.8	1085.2	1086.1	1088.0	1088.0
5°	1083.4	1083.4	1081.6	1084.3	1085.2
7.5°	1083.4	1078.8	1076.1	1078.8	1080.7
10°	1068.8	1067.0	1068.8	1067.9	1070.6
12.5°	1056.0	1054.2	1054.2	1056.9	1056.9
15°	1041.4	1041.4	1038.6	1043.2	1042.3
17.5°	1026.8	1026.8	1024.9	1024.9	1026.8
20°	1009.4	1004.8	1006.7	1005.8	1004.8
22.5°	985.7	982.9	981.1	983.8	984.7
25°	962.8	961.0	957.3	961.0	960.1
27.5°	938.2	936.3	935.4	933.6	935.4
30°	910.7	908.9	908.0	906.2	906.2
32.5°	883.3	879.7	875.1	879.7	878.8
35°	850.5	850.5	846.8	847.7	850.5
37.5°	821.2	819.4	817.6	814.8	815.7
40°	788.3	785.6	784.7	782.9	779.2
42.5°	750.0	750.0	746.3	747.2	746.3
45°	715.3	714.3	710.7	710.7	710.7
47.5°	678.7	677.8	675.1	673.2	675.1
50°	641.3	637.6	637.6	634.9	634.0
52.5°	602.0	599.2	595.6	596.5	594.7
55°	560.0	559.1	556.3	555.4	555.4
57.5°	517.9	518.9	517.0	513.4	514.3
60°	476.8	475.9	474.1	472.3	472.3
62.5°	434.8	434.8	431.2	431.2	427.5
65°	392.8	392.8	388.2	390.1	386.4
67.5°	350.8	349.9	347.1	346.2	347.1
70°	305.1	306.0	304.2	304.2	305.1
72.5°	264.0	263.1	262.2	262.2	264.0
75°	222.9	222.0	220.2	220.2	222.0
77.5°	185.4	180.9	180.0	181.8	179.0
80°	148.0	141.6	140.7	139.8	139.8
82.5°	104.1	101.4	102.3	101.4	103.2
85°	65.8	64.9	63.9	63.9	64.9
87.5°	31.1	29.2	29.2	28.3	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)