

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: P292790

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292790
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3142.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

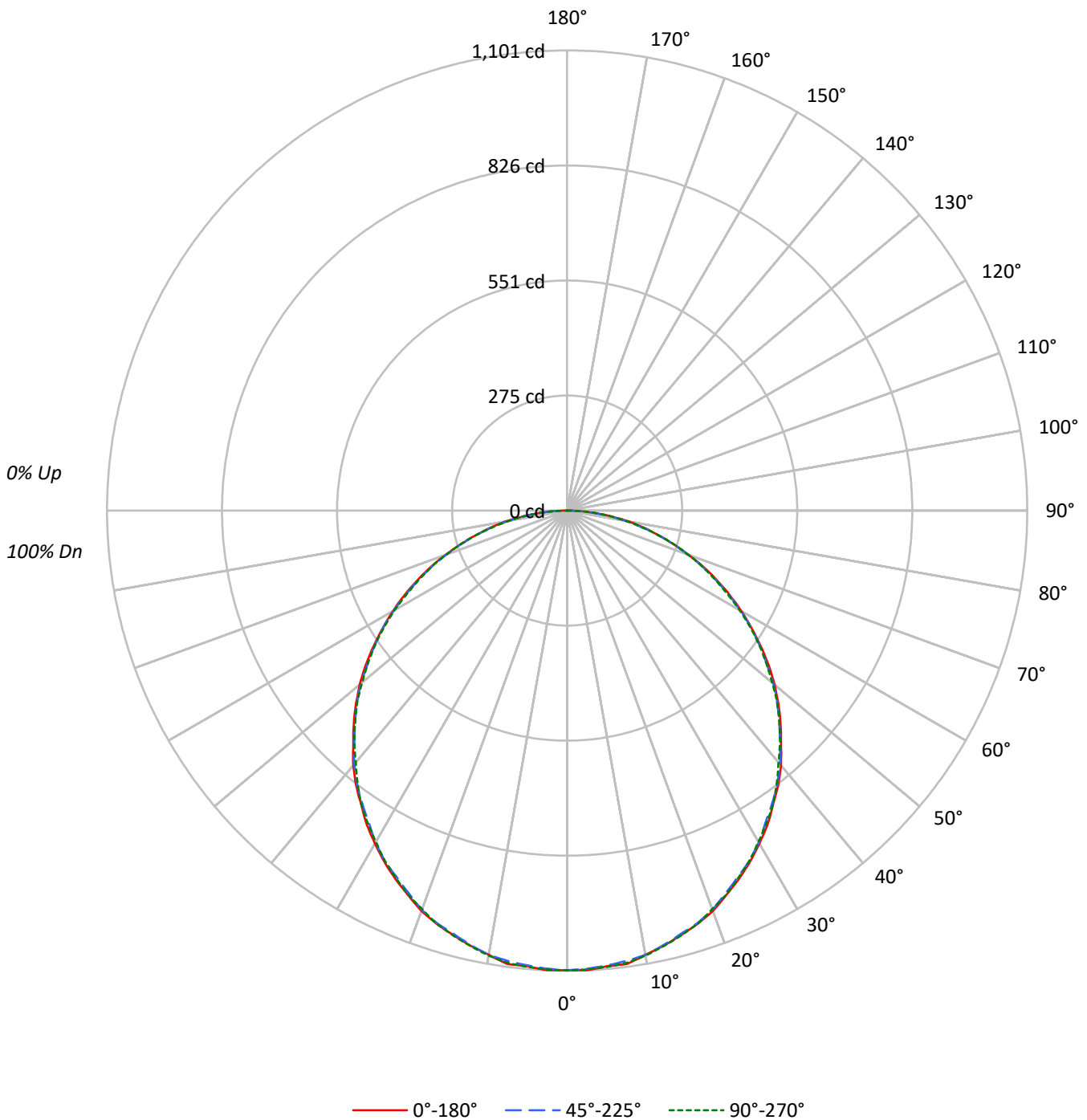
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2959	2959	2959
5°	2956	2951	2961
10°	2949	2949	2955
15°	2930	2922	2933
20°	2920	2912	2906
25°	2887	2871	2879
30°	2858	2850	2844
35°	2822	2809	2822
40°	2797	2784	2765
45°	2749	2732	2732
50°	2712	2696	2681
55°	2653	2636	2632
60°	2592	2577	2567
65°	2526	2497	2485
70°	2424	2417	2424
75°	2340	2311	2331
80°	2317	2202	2188
85°	2050	1995	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	3.3
10°-20°	296.8	9.4
20°-30°	447.0	14.2
30°-40°	536.4	17.1
40°-50°	555.0	17.7
50°-60°	502.9	16.0
60°-70°	389.9	12.4
70°-80°	236.7	7.5
80°-90°	73.2	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°	847.8	27.0
0°-40°	1384.3	44.1
0°-60°	2442.2	77.7
0°-90°	3142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1094	1094	1092	1095	1096	104
15°	1052	1052	1049	1054	1053	297
25°	972	971	967	971	970	448
35°	859	859	855	856	859	538
45°	722	722	718	718	718	557
55°	566	565	562	561	561	506
65°	397	397	392	394	390	392
75°	225	224	222	222	224	239
85°	66	66	65	65	66	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1100.7	1096.0	1097.0	1098.8	1098.8
5°	1094.2	1094.2	1092.3	1095.1	1096.0
7.5°	1094.2	1089.6	1086.8	1089.6	1091.4
10°	1079.4	1077.6	1079.4	1078.5	1081.3
12.5°	1066.5	1064.7	1064.7	1067.4	1067.4
15°	1051.8	1051.8	1049.0	1053.6	1052.7
17.5°	1037.0	1037.0	1035.1	1035.1	1037.0
20°	1019.5	1014.9	1016.7	1015.8	1014.9
22.5°	995.5	992.7	990.9	993.6	994.6
25°	972.4	970.6	966.9	970.6	969.6
27.5°	947.5	945.7	944.7	942.9	944.7
30°	919.8	918.0	917.1	915.2	915.2
32.5°	892.1	888.5	883.8	888.5	887.5
35°	858.9	858.9	855.2	856.2	858.9
37.5°	829.4	827.6	825.7	823.0	823.9
40°	796.2	793.4	792.5	790.7	787.0
42.5°	757.4	757.4	753.8	754.7	753.8
45°	722.4	721.5	717.8	717.8	717.8
47.5°	685.5	684.6	681.8	680.0	681.8
50°	647.7	644.0	644.0	641.2	640.3
52.5°	608.0	605.2	601.5	602.5	600.6
55°	565.5	564.6	561.9	560.9	560.9
57.5°	523.1	524.0	522.2	518.5	519.4
60°	481.6	480.7	478.8	477.0	477.0
62.5°	439.2	439.2	435.5	435.5	431.8
65°	396.7	396.7	392.1	393.9	390.3
67.5°	354.3	353.4	350.6	349.7	350.6
70°	308.1	309.1	307.2	307.2	308.1
72.5°	266.6	265.7	264.8	264.8	266.6
75°	225.1	224.2	222.3	222.3	224.2
77.5°	187.3	182.7	181.8	183.6	180.8
80°	149.5	143.0	142.1	141.2	141.2
82.5°	105.2	102.4	103.3	102.4	104.3
85°	66.4	65.5	64.6	64.6	65.5
87.5°	31.4	29.5	29.5	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)