

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: P292807

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292807
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-LD5-43-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: 3744.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

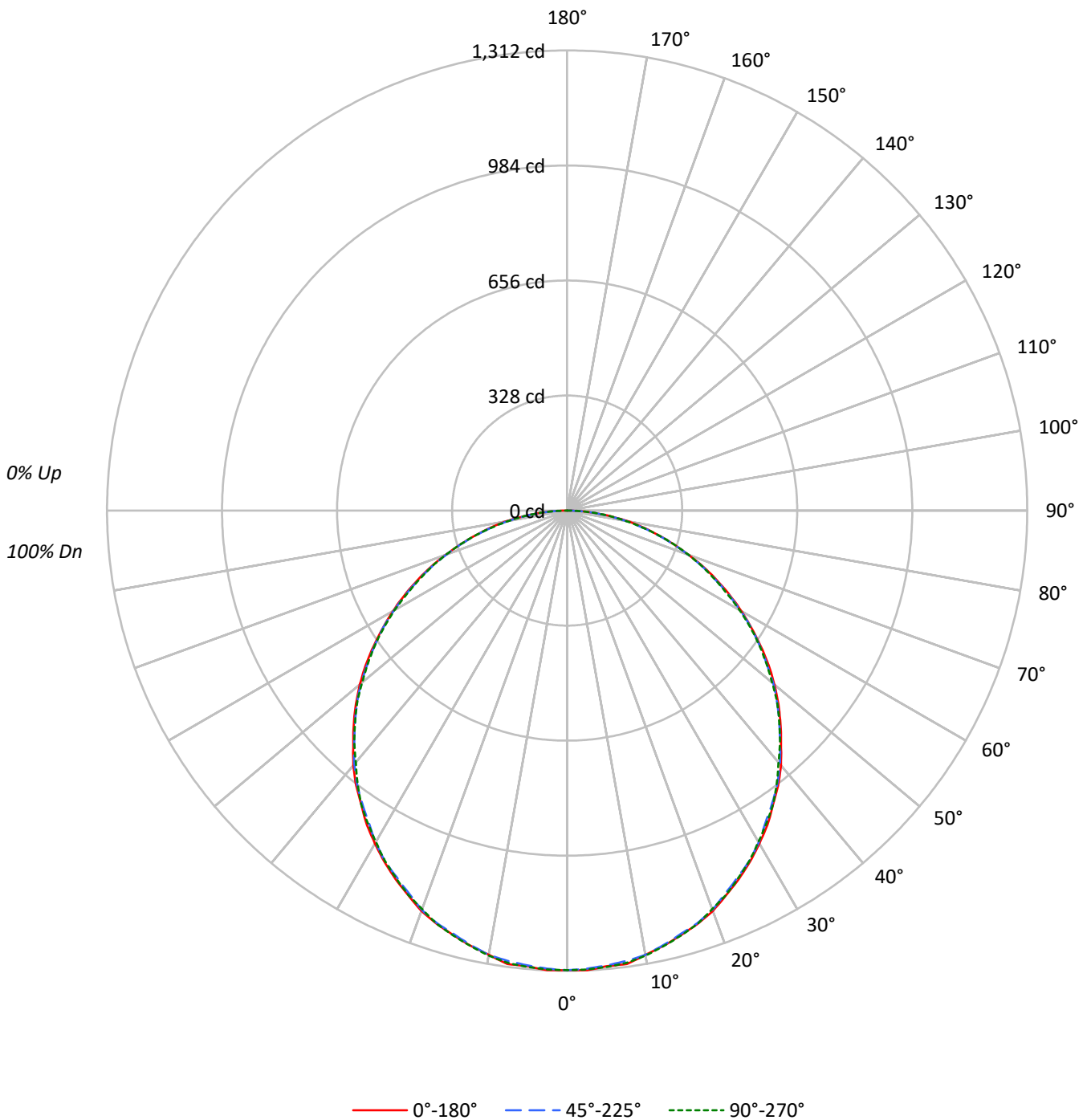
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3526	3526	3526
5°	3522	3516	3528
10°	3515	3515	3521
15°	3492	3482	3495
20°	3479	3469	3463
25°	3440	3421	3431
30°	3406	3396	3389
35°	3362	3348	3362
40°	3333	3317	3294
45°	3276	3255	3255
50°	3231	3213	3194
55°	3162	3141	3136
60°	3089	3071	3059
65°	3010	2975	2961
70°	2889	2880	2889
75°	2789	2754	2777
80°	2760	2624	2607
85°	2445	2377	2411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	3.3
10°-20°	353.7	9.4
20°-30°	532.6	14.2
30°-40°	639.2	17.1
40°-50°	661.4	17.7
50°-60°	599.3	16.0
60°-70°	464.6	12.4
70°-80°	282.0	7.5
80°-90°	87.3	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°	1010.3	27.0
0°-40°	1649.5	44.1
0°-60°	2910.1	77.7
0°-90°	3744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1304	1304	1302	1305	1306	124
15°	1253	1253	1250	1256	1254	354
25°	1159	1156	1152	1156	1155	534
35°	1024	1024	1019	1020	1024	642
45°	861	860	855	855	855	664
55°	674	673	670	668	668	603
65°	473	473	467	469	465	467
75°	268	267	265	265	267	285
85°	79	78	77	77	78	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.4	1310.4	1310.4	1310.4	1310.4
2.5°	1311.5	1306.0	1307.1	1309.3	1309.3
5°	1303.8	1303.8	1301.6	1304.9	1306.0
7.5°	1303.8	1298.3	1295.0	1298.3	1300.5
10°	1286.2	1284.1	1286.2	1285.1	1288.4
12.5°	1270.9	1268.7	1268.7	1272.0	1272.0
15°	1253.3	1253.3	1250.0	1255.5	1254.4
17.5°	1235.7	1235.7	1233.5	1233.5	1235.7
20°	1214.8	1209.3	1211.5	1210.4	1209.3
22.5°	1186.2	1182.9	1180.7	1184.0	1185.1
25°	1158.7	1156.5	1152.1	1156.5	1155.4
27.5°	1129.0	1126.8	1125.7	1123.5	1125.7
30°	1096.1	1093.9	1092.8	1090.6	1090.6
32.5°	1063.1	1058.7	1053.2	1058.7	1057.6
35°	1023.5	1023.5	1019.1	1020.2	1023.5
37.5°	988.3	986.1	983.9	980.6	981.7
40°	948.7	945.4	944.3	942.1	937.8
42.5°	902.6	902.6	898.2	899.3	898.2
45°	860.8	859.7	855.3	855.3	855.3
47.5°	816.8	815.7	812.4	810.2	812.4
50°	771.7	767.4	767.4	764.1	763.0
52.5°	724.5	721.2	716.8	717.9	715.7
55°	673.9	672.8	669.5	668.4	668.4
57.5°	623.3	624.4	622.2	617.8	618.9
60°	573.9	572.8	570.6	568.4	568.4
62.5°	523.3	523.3	518.9	518.9	514.5
65°	472.7	472.7	467.2	469.4	465.0
67.5°	422.2	421.1	417.8	416.7	417.8
70°	367.2	368.3	366.1	366.1	367.2
72.5°	317.7	316.6	315.5	315.5	317.7
75°	268.2	267.1	264.9	264.9	267.1
77.5°	223.2	217.7	216.6	218.8	215.5
80°	178.1	170.4	169.3	168.2	168.2
82.5°	125.3	122.0	123.1	122.0	124.2
85°	79.2	78.1	77.0	77.0	78.1
87.5°	37.4	35.2	35.2	34.1	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)