

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: P292808

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292808
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-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: 3781.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

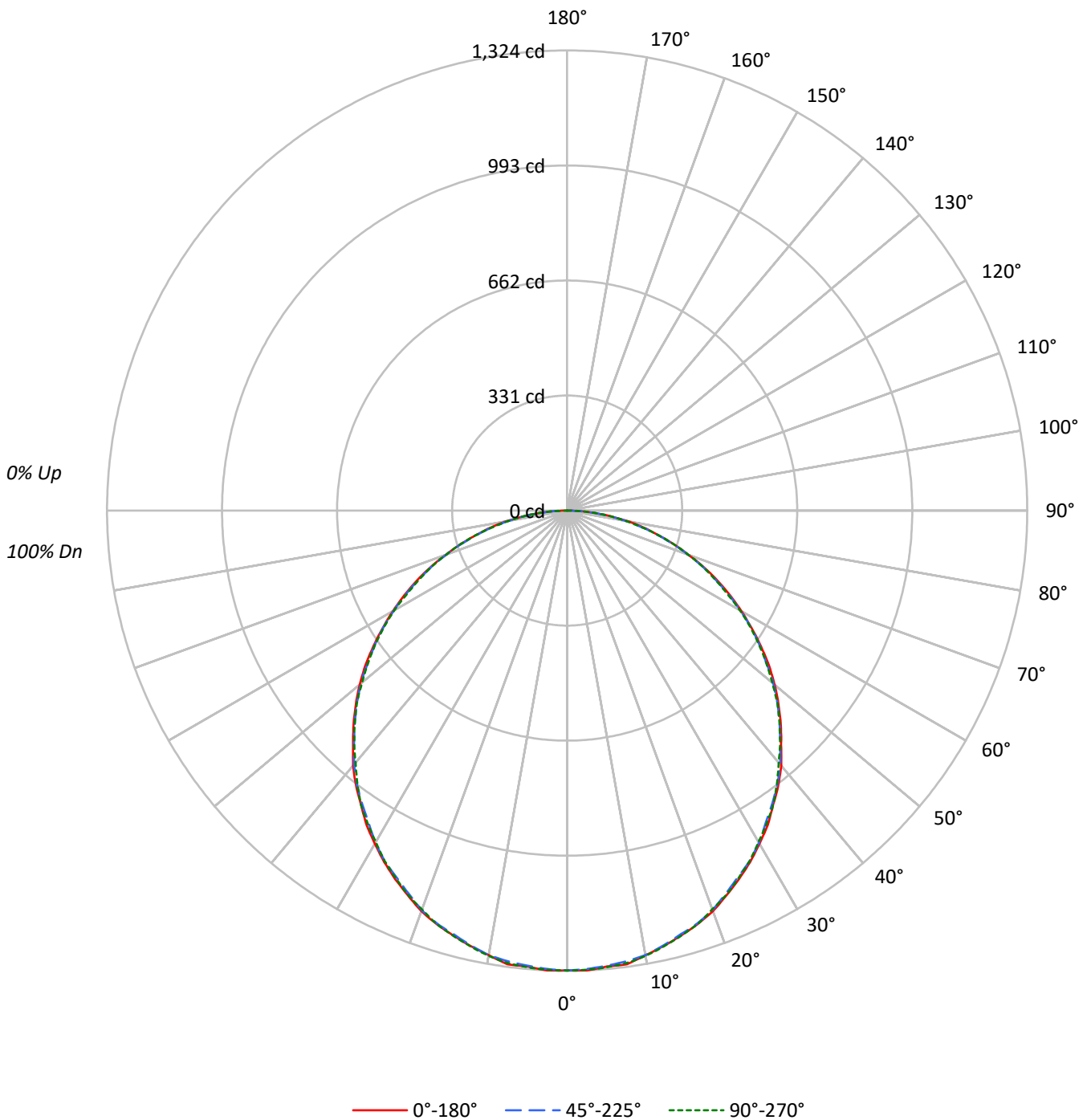
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3561	3561	3561
5°	3557	3551	3563
10°	3550	3550	3556
15°	3526	3517	3529
20°	3513	3504	3497
25°	3475	3455	3464
30°	3439	3429	3422
35°	3395	3381	3395
40°	3366	3350	3327
45°	3308	3287	3287
50°	3263	3244	3226
55°	3193	3172	3167
60°	3119	3101	3089
65°	3040	3004	2990
70°	2917	2909	2917
75°	2817	2782	2805
80°	2788	2650	2633
85°	2467	2399	2433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.3
10°-20°	357.2	9.4
20°-30°	537.9	14.2
30°-40°	645.5	17.1
40°-50°	667.9	17.7
50°-60°	605.2	16.0
60°-70°	469.1	12.4
70°-80°	284.8	7.5
80°-90°	88.1	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°	1020.3	27.0
0°-40°	1665.8	44.1
0°-60°	2938.9	77.7
0°-90°	3781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1317	1317	1314	1318	1319	125
15°	1266	1266	1262	1268	1267	358
25°	1170	1168	1164	1168	1167	539
35°	1034	1034	1029	1030	1034	648
45°	869	868	864	864	864	671
55°	681	680	676	675	675	609
65°	477	477	472	474	470	472
75°	271	270	268	268	270	288
85°	80	79	78	78	79	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1323.4	1323.4	1323.4	1323.4	1323.4
2.5°	1324.5	1318.9	1320.1	1322.3	1322.3
5°	1316.7	1316.7	1314.5	1317.8	1318.9
7.5°	1316.7	1311.2	1307.8	1311.2	1313.4
10°	1299.0	1296.7	1299.0	1297.9	1301.2
12.5°	1283.4	1281.2	1281.2	1284.5	1284.5
15°	1265.7	1265.7	1262.3	1267.9	1266.8
17.5°	1247.9	1247.9	1245.7	1245.7	1247.9
20°	1226.8	1221.2	1223.5	1222.4	1221.2
22.5°	1197.9	1194.6	1192.4	1195.7	1196.8
25°	1170.2	1168.0	1163.5	1168.0	1166.8
27.5°	1140.2	1138.0	1136.9	1134.6	1136.9
30°	1106.9	1104.7	1103.6	1101.3	1101.3
32.5°	1073.6	1069.1	1063.6	1069.1	1068.0
35°	1033.6	1033.6	1029.2	1030.3	1033.6
37.5°	998.1	995.9	993.6	990.3	991.4
40°	958.1	954.8	953.7	951.5	947.0
42.5°	911.5	911.5	907.1	908.2	907.1
45°	869.3	868.2	863.8	863.8	863.8
47.5°	824.9	823.8	820.5	818.2	820.5
50°	779.4	774.9	774.9	771.6	770.5
52.5°	731.6	728.3	723.9	725.0	722.8
55°	680.6	679.5	676.1	675.0	675.0
57.5°	629.5	630.6	628.4	623.9	625.1
60°	579.5	578.4	576.2	574.0	574.0
62.5°	528.5	528.5	524.0	524.0	519.6
65°	477.4	477.4	471.8	474.1	469.6
67.5°	426.3	425.2	421.9	420.8	421.9
70°	370.8	371.9	369.7	369.7	370.8
72.5°	320.9	319.7	318.6	318.6	320.9
75°	270.9	269.8	267.6	267.6	269.8
77.5°	225.4	219.8	218.7	220.9	217.6
80°	179.9	172.1	171.0	169.9	169.9
82.5°	126.6	123.2	124.3	123.2	125.5
85°	79.9	78.8	77.7	77.7	78.8
87.5°	37.7	35.5	35.5	34.4	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)