

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: P292907

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292907
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-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3428.0 lumens
Efficiency: N/A
Efficacy: 94.5 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

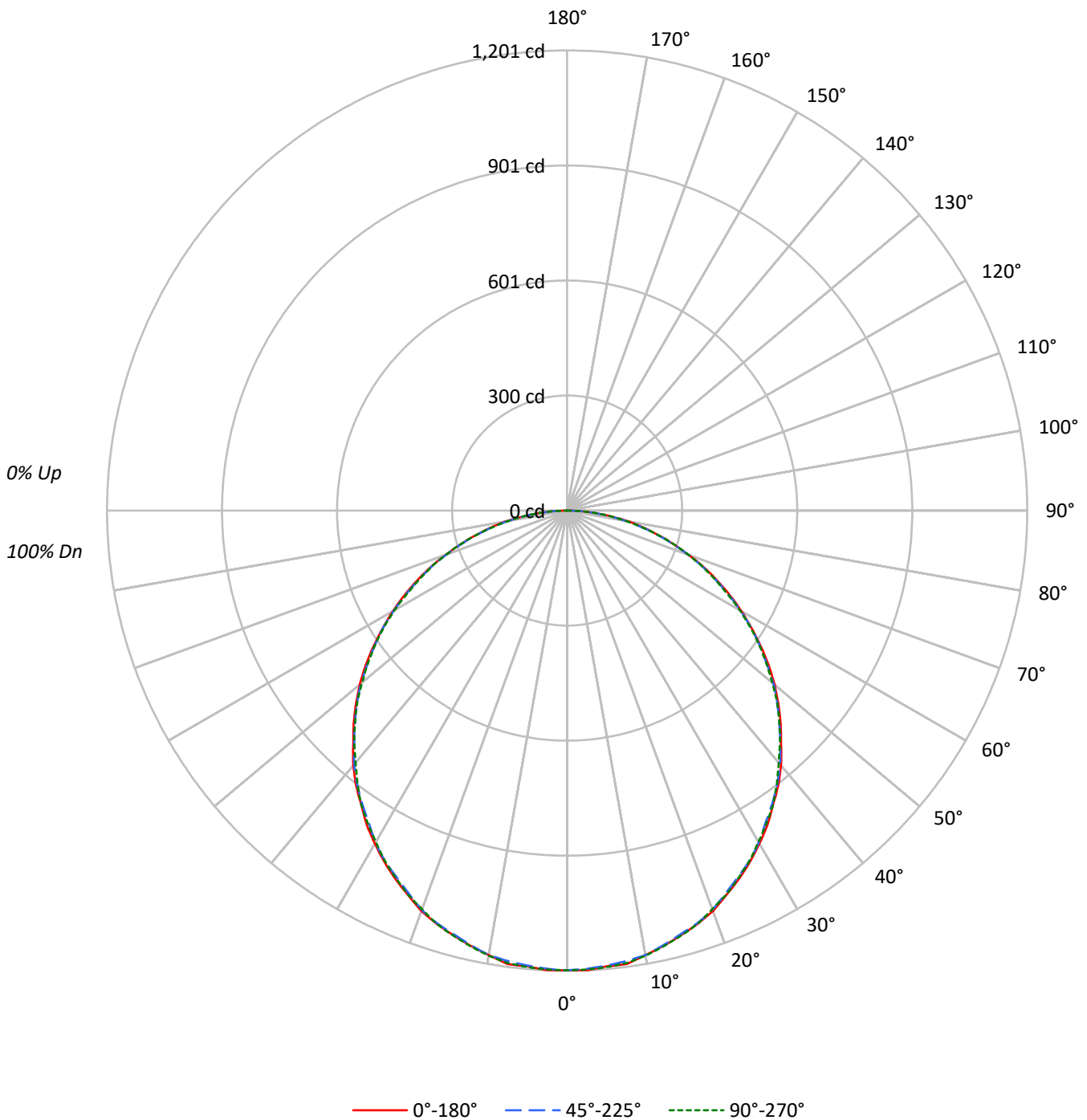
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3229	3229	3229
5°	3225	3219	3230
10°	3218	3218	3224
15°	3197	3188	3200
20°	3185	3176	3171
25°	3150	3132	3141
30°	3118	3109	3103
35°	3078	3065	3078
40°	3052	3037	3016
45°	2999	2980	2980
50°	2958	2941	2925
55°	2895	2876	2871
60°	2828	2812	2801
65°	2756	2724	2711
70°	2645	2637	2645
75°	2554	2522	2543
80°	2528	2402	2386
85°	2238	2177	2208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	3.3
10°-20°	323.9	9.4
20°-30°	487.7	14.2
30°-40°	585.2	17.1
40°-50°	605.6	17.7
50°-60°	548.7	16.0
60°-70°	425.3	12.4
70°-80°	258.2	7.5
80°-90°	79.9	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°	925.0	27.0
0°-40°	1510.2	44.1
0°-60°	2664.5	77.7
0°-90°	3428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1194	1194	1192	1195	1196	114
15°	1148	1148	1144	1150	1148	324
25°	1061	1059	1055	1059	1058	489
35°	937	937	933	934	937	588
45°	788	787	783	783	783	608
55°	617	616	613	612	612	552
65°	433	433	428	430	426	428
75°	246	245	243	243	245	261
85°	72	72	70	70	72	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.8	1199.8	1199.8	1199.8	1199.8
2.5°	1200.8	1195.8	1196.8	1198.8	1198.8
5°	1193.8	1193.8	1191.8	1194.8	1195.8
7.5°	1193.8	1188.8	1185.7	1188.8	1190.8
10°	1177.7	1175.7	1177.7	1176.7	1179.7
12.5°	1163.6	1161.6	1161.6	1164.6	1164.6
15°	1147.5	1147.5	1144.5	1149.5	1148.5
17.5°	1131.4	1131.4	1129.4	1129.4	1131.4
20°	1112.3	1107.2	1109.2	1108.2	1107.2
22.5°	1086.1	1083.1	1081.1	1084.1	1085.1
25°	1060.9	1058.9	1054.9	1058.9	1057.9
27.5°	1033.7	1031.7	1030.7	1028.7	1030.7
30°	1003.6	1001.5	1000.5	998.5	998.5
32.5°	973.4	969.3	964.3	969.3	968.3
35°	937.1	937.1	933.1	934.1	937.1
37.5°	904.9	902.9	900.9	897.9	898.9
40°	868.7	865.7	864.6	862.6	858.6
42.5°	826.4	826.4	822.4	823.4	822.4
45°	788.1	787.1	783.1	783.1	783.1
47.5°	747.9	746.9	743.9	741.8	743.9
50°	706.6	702.6	702.6	699.6	698.6
52.5°	663.3	660.3	656.3	657.3	655.3
55°	617.0	616.0	613.0	612.0	612.0
57.5°	570.7	571.7	569.7	565.7	566.7
60°	525.4	524.4	522.4	520.4	520.4
62.5°	479.1	479.1	475.1	475.1	471.1
65°	432.8	432.8	427.8	429.8	425.8
67.5°	386.5	385.5	382.5	381.5	382.5
70°	336.2	337.2	335.2	335.2	336.2
72.5°	290.9	289.9	288.9	288.9	290.9
75°	245.6	244.6	242.6	242.6	244.6
77.5°	204.3	199.3	198.3	200.3	197.3
80°	163.1	156.0	155.0	154.0	154.0
82.5°	114.7	111.7	112.7	111.7	113.7
85°	72.5	71.5	70.5	70.5	71.5
87.5°	34.2	32.2	32.2	31.2	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)