

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: P292908

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292908
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3451.0 lumens
Efficiency: N/A
Efficacy: 93.7 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

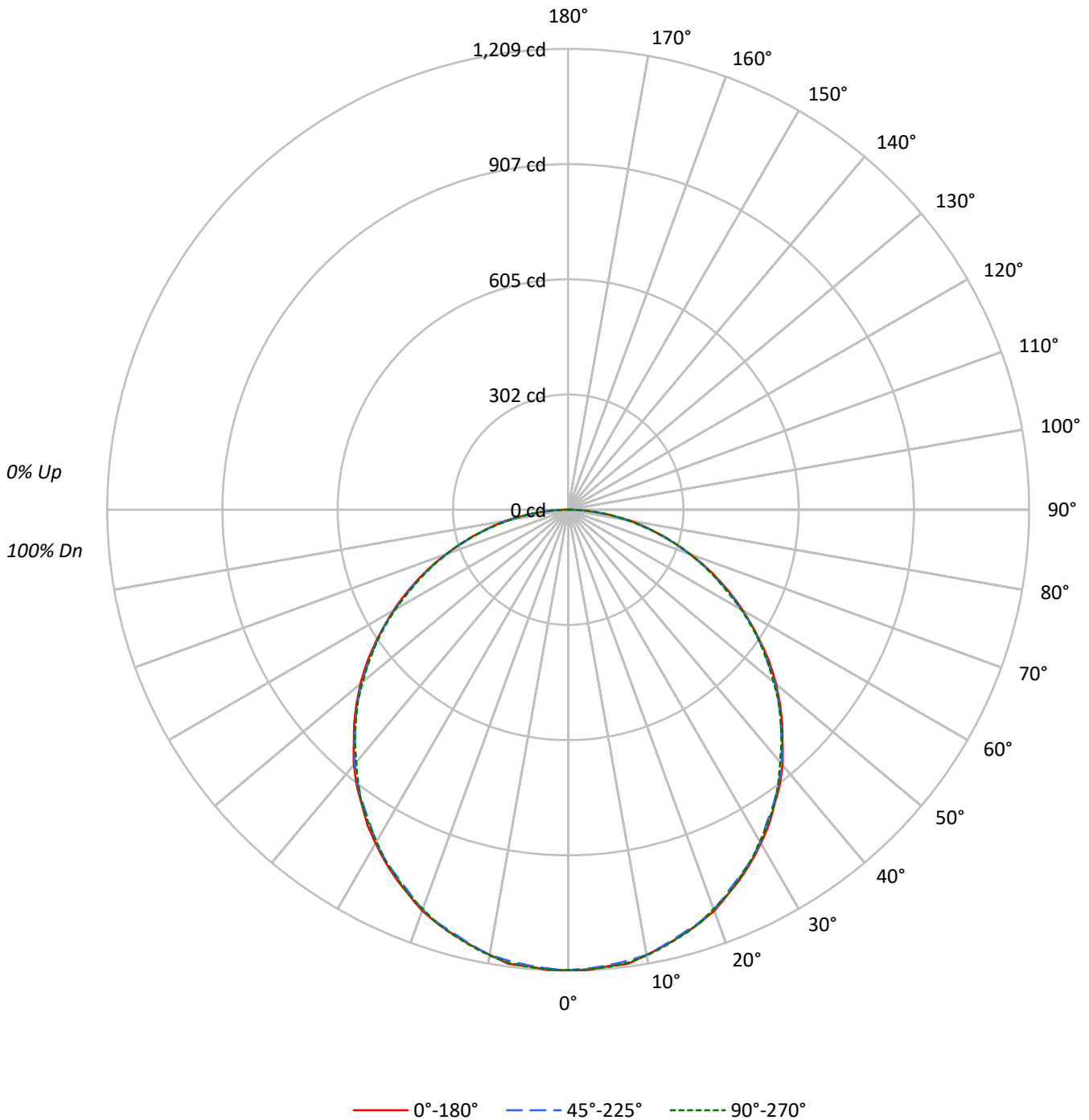
Input Watts (W): 36.828
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3250	3250	3250
5°	3246	3241	3252
10°	3240	3240	3245
15°	3218	3210	3221
20°	3206	3198	3192
25°	3171	3153	3162
30°	3139	3130	3123
35°	3099	3086	3099
40°	3072	3058	3036
45°	3019	3000	3000
50°	2978	2961	2944
55°	2914	2895	2890
60°	2847	2830	2820
65°	2774	2742	2729
70°	2663	2655	2663
75°	2571	2539	2560
80°	2545	2419	2402
85°	2254	2189	2220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	3.3
10°-20°	326.0	9.4
20°-30°	490.9	14.2
30°-40°	589.2	17.1
40°-50°	609.6	17.7
50°-60°	552.4	16.0
60°-70°	428.2	12.4
70°-80°	259.9	7.5
80°-90°	80.4	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°	931.2	27.0
0°-40°	1520.4	44.1
0°-60°	2682.4	77.7
0°-90°	3451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1202	1202	1200	1203	1204	114
15°	1155	1155	1152	1157	1156	326
25°	1068	1066	1062	1066	1065	492
35°	943	943	939	940	943	591
45°	793	792	788	788	788	612
55°	621	620	617	616	616	556
65°	436	436	431	433	429	431
75°	247	246	244	244	246	263
85°	73	72	71	71	72	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.9	1207.9	1207.9	1207.9	1207.9
2.5°	1208.9	1203.8	1204.8	1206.9	1206.9
5°	1201.8	1201.8	1199.8	1202.8	1203.8
7.5°	1201.8	1196.7	1193.7	1196.7	1198.8
10°	1185.6	1183.6	1185.6	1184.6	1187.6
12.5°	1171.4	1169.4	1169.4	1172.4	1172.4
15°	1155.2	1155.2	1152.1	1157.2	1156.2
17.5°	1139.0	1139.0	1136.9	1136.9	1139.0
20°	1119.7	1114.7	1116.7	1115.7	1114.7
22.5°	1093.4	1090.3	1088.3	1091.3	1092.4
25°	1068.0	1066.0	1062.0	1066.0	1065.0
27.5°	1040.7	1038.7	1037.6	1035.6	1037.6
30°	1010.3	1008.3	1007.2	1005.2	1005.2
32.5°	979.9	975.8	970.8	975.8	974.8
35°	943.4	943.4	939.4	940.4	943.4
37.5°	911.0	909.0	906.9	903.9	904.9
40°	874.5	871.5	870.4	868.4	864.4
42.5°	831.9	831.9	827.9	828.9	827.9
45°	793.4	792.4	788.4	788.4	788.4
47.5°	752.9	751.9	748.8	746.8	748.8
50°	711.4	707.3	707.3	704.3	703.2
52.5°	667.8	664.7	660.7	661.7	659.7
55°	621.2	620.2	617.1	616.1	616.1
57.5°	574.6	575.6	573.5	569.5	570.5
60°	529.0	527.9	525.9	523.9	523.9
62.5°	482.3	482.3	478.3	478.3	474.2
65°	435.7	435.7	430.7	432.7	428.6
67.5°	389.1	388.1	385.1	384.0	385.1
70°	338.5	339.5	337.4	337.4	338.5
72.5°	292.9	291.8	290.8	290.8	292.9
75°	247.3	246.2	244.2	244.2	246.2
77.5°	205.7	200.6	199.6	201.7	198.6
80°	164.2	157.1	156.1	155.0	155.0
82.5°	115.5	112.5	113.5	112.5	114.5
85°	73.0	71.9	70.9	70.9	71.9
87.5°	34.5	32.4	32.4	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)