

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: P292905

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292905
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3362.0 lumens
Efficiency: N/A
Efficacy: 93.4 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

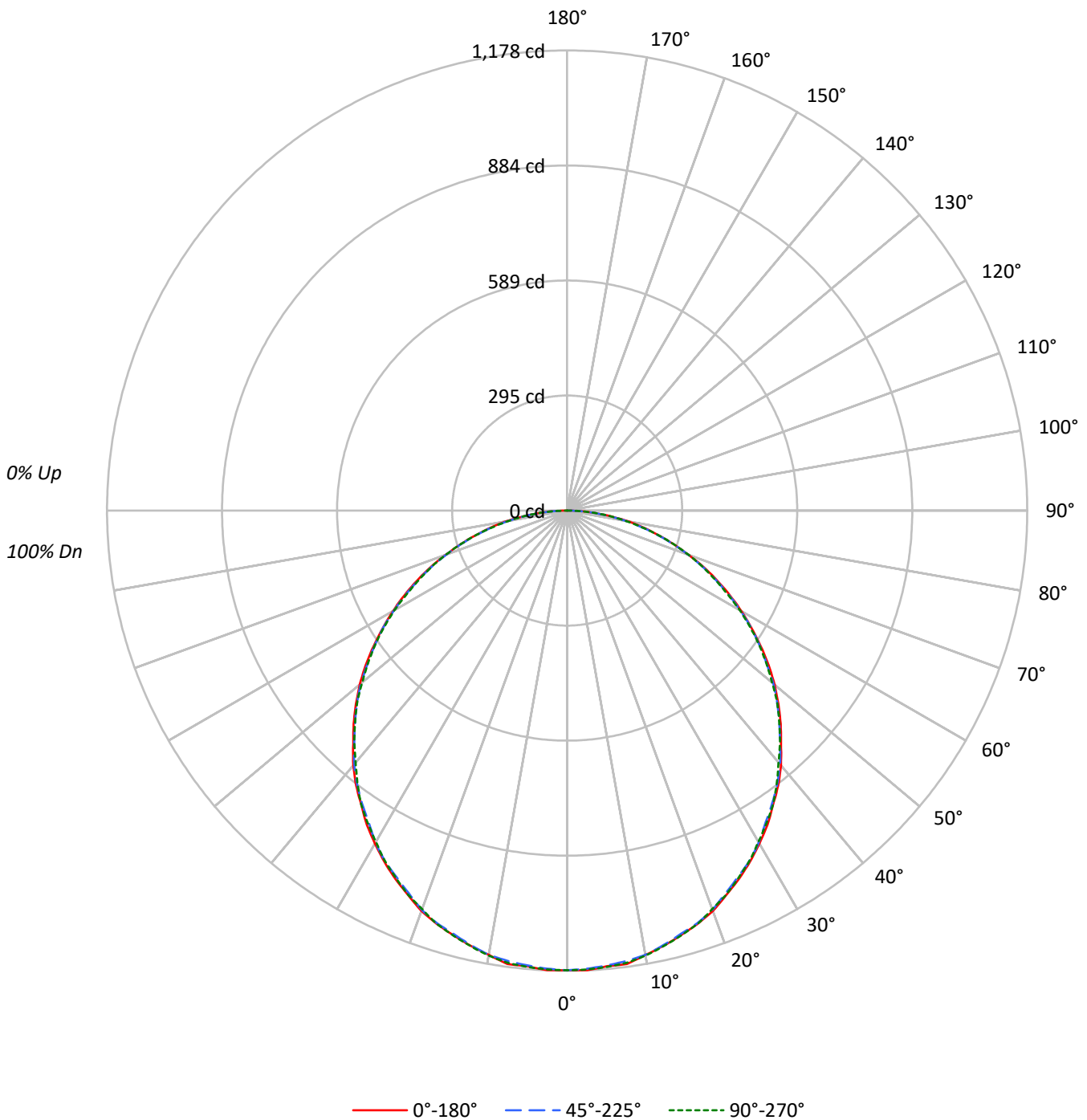
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3166	3166	3166
5°	3163	3157	3168
10°	3156	3156	3161
15°	3135	3127	3138
20°	3124	3115	3110
25°	3089	3072	3081
30°	3058	3049	3043
35°	3019	3006	3019
40°	2993	2979	2958
45°	2942	2923	2923
50°	2901	2885	2868
55°	2839	2821	2816
60°	2773	2758	2747
65°	2703	2672	2659
70°	2594	2586	2594
75°	2505	2473	2494
80°	2478	2356	2340
85°	2195	2133	2164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	3.3
10°-20°	317.6	9.4
20°-30°	478.3	14.2
30°-40°	574.0	17.1
40°-50°	593.9	17.7
50°-60°	538.2	16.0
60°-70°	417.2	12.4
70°-80°	253.2	7.5
80°-90°	78.4	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°	907.2	27.0
0°-40°	1481.2	44.1
0°-60°	2613.2	77.7
0°-90°	3362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1171	1171	1169	1172	1173	112
15°	1125	1125	1122	1127	1126	318
25°	1040	1038	1035	1038	1038	480
35°	919	919	915	916	919	576
45°	773	772	768	768	768	596
55°	605	604	601	600	600	541
65°	424	424	420	422	418	420
75°	241	240	238	238	240	256
85°	71	70	69	69	70	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.7	1176.7	1176.7	1176.7	1176.7
2.5°	1177.7	1172.8	1173.8	1175.7	1175.7
5°	1170.8	1170.8	1168.8	1171.8	1172.8
7.5°	1170.8	1165.9	1162.9	1165.9	1167.8
10°	1155.0	1153.0	1155.0	1154.0	1157.0
12.5°	1141.2	1139.2	1139.2	1142.2	1142.2
15°	1125.4	1125.4	1122.4	1127.4	1126.4
17.5°	1109.6	1109.6	1107.6	1107.6	1109.6
20°	1090.8	1085.9	1087.9	1086.9	1085.9
22.5°	1065.2	1062.2	1060.2	1063.2	1064.2
25°	1040.5	1038.5	1034.6	1038.5	1037.5
27.5°	1013.8	1011.9	1010.9	1008.9	1010.9
30°	984.2	982.3	981.3	979.3	979.3
32.5°	954.6	950.7	945.7	950.7	949.7
35°	919.1	919.1	915.1	916.1	919.1
37.5°	887.5	885.5	883.5	880.6	881.6
40°	851.9	849.0	848.0	846.0	842.1
42.5°	810.5	810.5	806.5	807.5	806.5
45°	773.0	772.0	768.0	768.0	768.0
47.5°	733.5	732.5	729.5	727.6	729.5
50°	693.0	689.1	689.1	686.1	685.1
52.5°	650.6	647.6	643.6	644.6	642.7
55°	605.1	604.2	601.2	600.2	600.2
57.5°	559.7	560.7	558.7	554.8	555.8
60°	515.3	514.3	512.4	510.4	510.4
62.5°	469.9	469.9	466.0	466.0	462.0
65°	424.5	424.5	419.6	421.5	417.6
67.5°	379.1	378.1	375.1	374.1	375.1
70°	329.7	330.7	328.7	328.7	329.7
72.5°	285.3	284.3	283.3	283.3	285.3
75°	240.9	239.9	237.9	237.9	239.9
77.5°	200.4	195.5	194.5	196.5	193.5
80°	159.9	153.0	152.0	151.0	151.0
82.5°	112.5	109.6	110.6	109.6	111.6
85°	71.1	70.1	69.1	69.1	70.1
87.5°	33.6	31.6	31.6	30.6	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)