

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: P292793

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292793
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-LD5-40-FGW080-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3125.0 lumens
Efficiency: N/A
Efficacy: 96.6 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

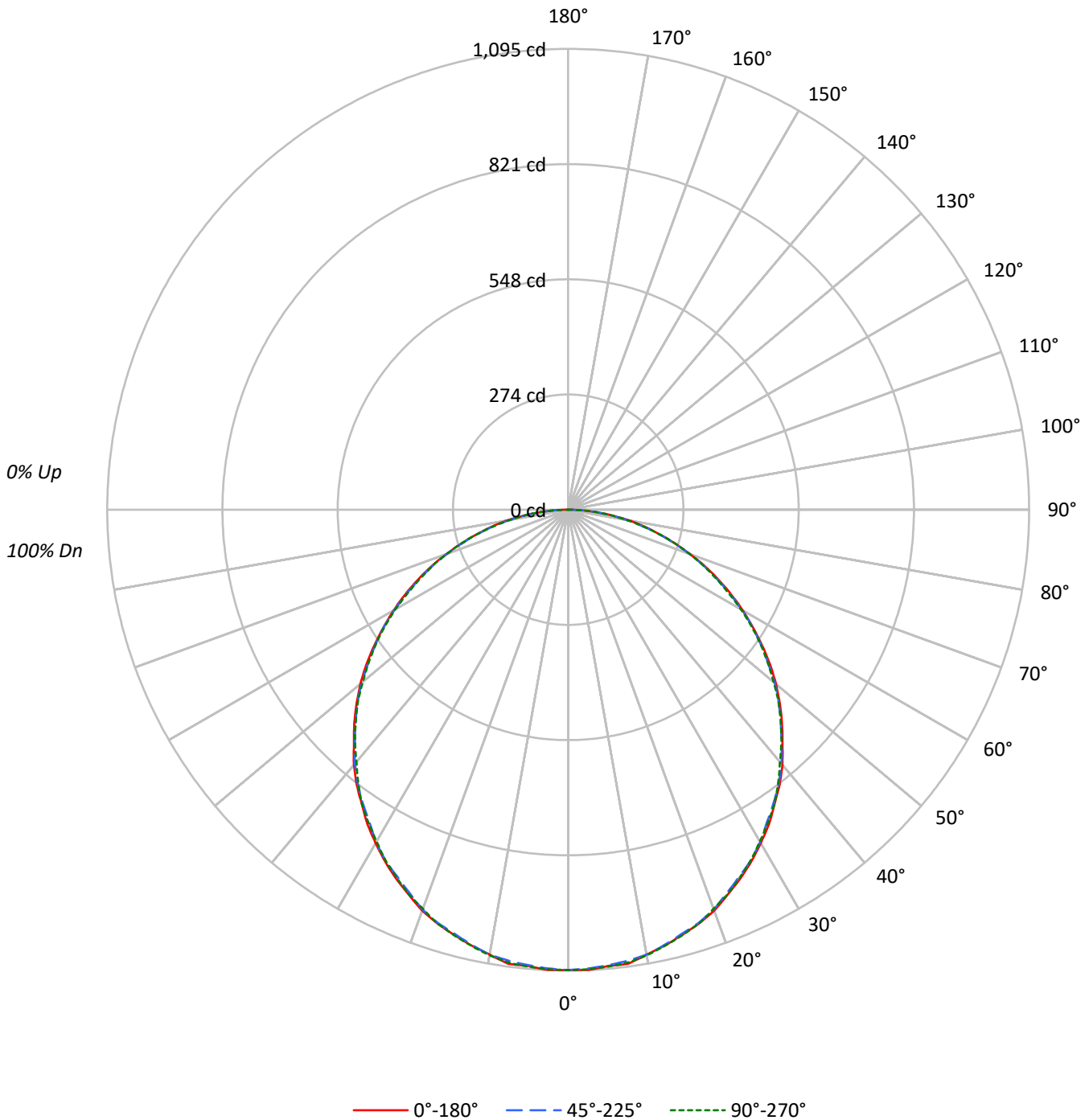
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2943	2943	2943
5°	2940	2935	2945
10°	2934	2934	2939
15°	2914	2907	2917
20°	2903	2896	2891
25°	2872	2855	2863
30°	2843	2834	2829
35°	2806	2794	2806
40°	2782	2769	2749
45°	2734	2717	2717
50°	2697	2681	2666
55°	2639	2622	2617
60°	2578	2563	2553
65°	2513	2483	2471
70°	2412	2404	2412
75°	2328	2299	2319
80°	2304	2190	2176
85°	2041	1982	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	3.3
10°-20°	295.2	9.4
20°-30°	444.6	14.2
30°-40°	533.5	17.1
40°-50°	552.0	17.7
50°-60°	500.2	16.0
60°-70°	387.8	12.4
70°-80°	235.4	7.5
80°-90°	72.8	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°	843.3	27.0
0°-40°	1376.8	44.1
0°-60°	2429.0	77.7
0°-90°	3125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1088	1088	1086	1089	1090	104
15°	1046	1046	1043	1048	1047	296
25°	967	965	962	965	964	446
35°	854	854	851	852	854	536
45°	718	718	714	714	714	554
55°	562	562	559	558	558	503
65°	395	395	390	392	388	390
75°	224	223	221	221	223	238
85°	66	65	64	64	65	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.8	1093.8	1093.8	1093.8	1093.8
2.5°	1094.7	1090.1	1091.0	1092.9	1092.9
5°	1088.3	1088.3	1086.4	1089.2	1090.1
7.5°	1088.3	1083.7	1080.9	1083.7	1085.5
10°	1073.6	1071.8	1073.6	1072.7	1075.4
12.5°	1060.7	1058.9	1058.9	1061.7	1061.7
15°	1046.1	1046.1	1043.3	1047.9	1047.0
17.5°	1031.4	1031.4	1029.5	1029.5	1031.4
20°	1013.9	1009.4	1011.2	1010.3	1009.4
22.5°	990.1	987.3	985.5	988.3	989.2
25°	967.2	965.3	961.6	965.3	964.4
27.5°	942.4	940.5	939.6	937.8	939.6
30°	914.8	913.0	912.1	910.3	910.3
32.5°	887.3	883.6	879.1	883.6	882.7
35°	854.3	854.3	850.6	851.5	854.3
37.5°	824.9	823.1	821.3	818.5	819.4
40°	791.9	789.1	788.2	786.4	782.7
42.5°	753.3	753.3	749.7	750.6	749.7
45°	718.5	717.6	713.9	713.9	713.9
47.5°	681.8	680.9	678.1	676.3	678.1
50°	644.2	640.5	640.5	637.7	636.8
52.5°	604.7	601.9	598.3	599.2	597.4
55°	562.5	561.6	558.8	557.9	557.9
57.5°	520.3	521.2	519.4	515.7	516.6
60°	479.0	478.1	476.2	474.4	474.4
62.5°	436.8	436.8	433.1	433.1	429.4
65°	394.6	394.6	390.0	391.8	388.1
67.5°	352.4	351.4	348.7	347.8	348.7
70°	306.5	307.4	305.6	305.6	306.5
72.5°	265.2	264.3	263.4	263.4	265.2
75°	223.9	223.0	221.1	221.1	223.0
77.5°	186.3	181.7	180.8	182.6	179.8
80°	148.7	142.2	141.3	140.4	140.4
82.5°	104.6	101.9	102.8	101.9	103.7
85°	66.1	65.1	64.2	64.2	65.1
87.5°	31.2	29.4	29.4	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)