

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: P292895

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292895
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-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3086.0 lumens
Efficiency: N/A
Efficacy: 93.5 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

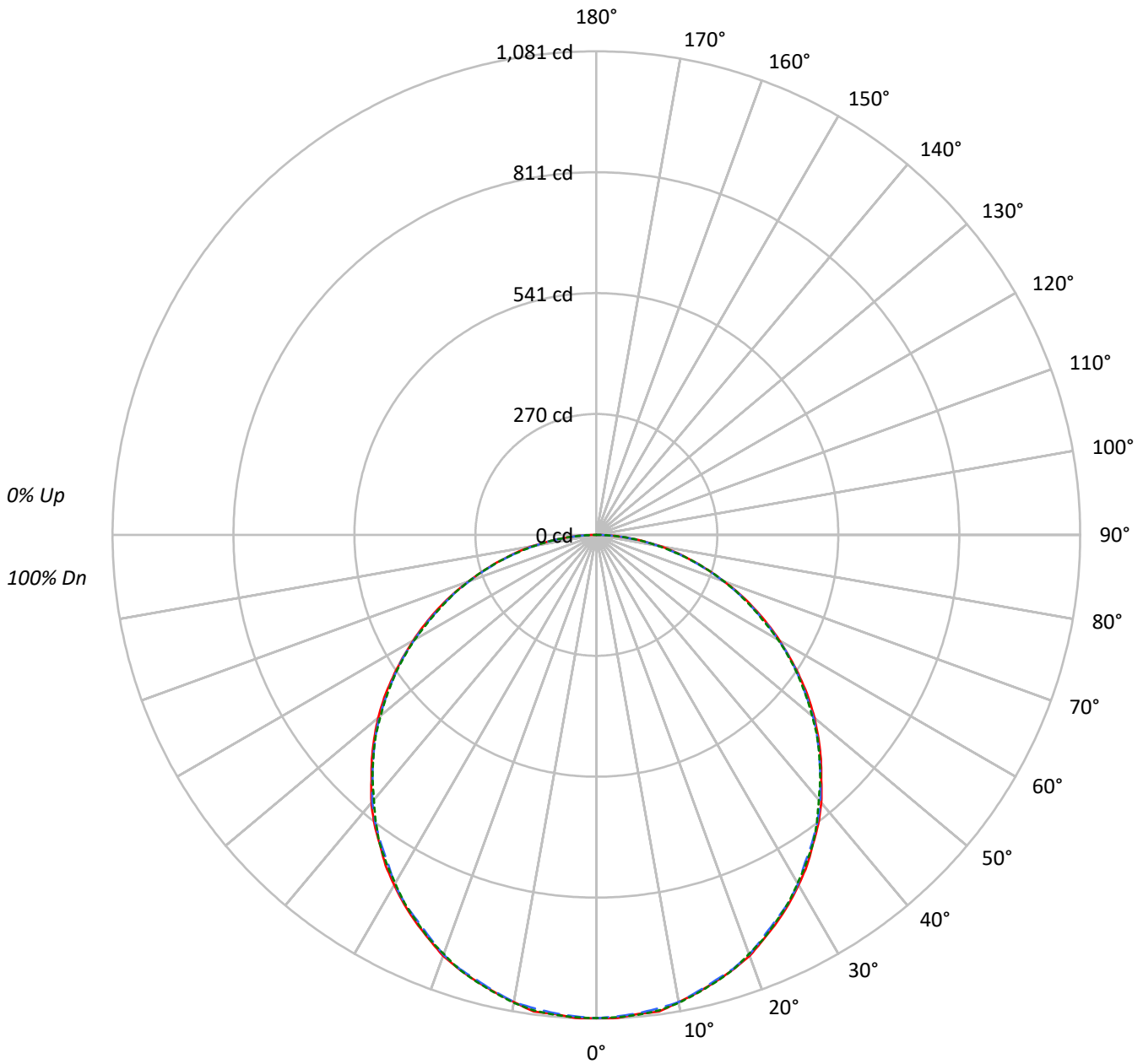
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ···· 90°-270°



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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°	2907	2907	2907
5°	2903	2898	2908
10°	2897	2897	2902
15°	2878	2870	2880
20°	2867	2860	2855
25°	2836	2820	2828
30°	2807	2799	2793
35°	2771	2759	2771
40°	2747	2734	2715
45°	2700	2683	2683
50°	2663	2648	2633
55°	2606	2589	2585
60°	2546	2531	2521
65°	2481	2452	2441
70°	2382	2374	2382
75°	2299	2271	2289
80°	2275	2162	2148
85°	2013	1958	1985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	3.3
10°-20°	291.5	9.4
20°-30°	439.0	14.2
30°-40°	526.8	17.1
40°-50°	545.1	17.7
50°-60°	494.0	16.0
60°-70°	382.9	12.4
70°-80°	232.5	7.5
80°-90°	71.9	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°	832.7	27.0
0°-40°	1359.6	44.1
0°-60°	2398.7	77.7
0°-90°	3086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1075	1075	1073	1076	1076	102
15°	1033	1033	1030	1035	1034	292
25°	955	953	950	953	952	440
35°	844	844	840	841	844	529
45°	710	709	705	705	705	548
55°	556	555	552	551	551	497
65°	390	390	385	387	383	385
75°	221	220	218	218	220	235
85°	65	64	63	63	64	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.1	1080.1	1080.1	1080.1	1080.1
2.5°	1081.0	1076.5	1077.4	1079.2	1079.2
5°	1074.7	1074.7	1072.9	1075.6	1076.5
7.5°	1074.7	1070.2	1067.4	1070.2	1072.0
10°	1060.2	1058.4	1060.2	1059.3	1062.0
12.5°	1047.5	1045.7	1045.7	1048.4	1048.4
15°	1033.0	1033.0	1030.3	1034.8	1033.9
17.5°	1018.5	1018.5	1016.7	1016.7	1018.5
20°	1001.3	996.8	998.6	997.7	996.8
22.5°	977.7	975.0	973.2	975.9	976.8
25°	955.1	953.3	949.6	953.3	952.4
27.5°	930.6	928.8	927.9	926.1	927.9
30°	903.4	901.6	900.7	898.9	898.9
32.5°	876.2	872.6	868.1	872.6	871.7
35°	843.6	843.6	840.0	840.9	843.6
37.5°	814.6	812.8	811.0	808.3	809.2
40°	782.0	779.3	778.4	776.6	772.9
42.5°	743.9	743.9	740.3	741.2	740.3
45°	709.5	708.6	705.0	705.0	705.0
47.5°	673.3	672.4	669.6	667.8	669.6
50°	636.1	632.5	632.5	629.8	628.9
52.5°	597.2	594.4	590.8	591.7	589.9
55°	555.5	554.6	551.8	550.9	550.9
57.5°	513.8	514.7	512.9	509.3	510.2
60°	473.0	472.1	470.3	468.5	468.5
62.5°	431.3	431.3	427.7	427.7	424.1
65°	389.6	389.6	385.1	386.9	383.3
67.5°	348.0	347.1	344.3	343.4	344.3
70°	302.7	303.6	301.7	301.7	302.7
72.5°	261.9	261.0	260.1	260.1	261.9
75°	221.1	220.2	218.4	218.4	220.2
77.5°	183.9	179.4	178.5	180.3	177.6
80°	146.8	140.5	139.5	138.6	138.6
82.5°	103.3	100.6	101.5	100.6	102.4
85°	65.2	64.3	63.4	63.4	64.3
87.5°	30.8	29.0	29.0	28.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)