

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: P292792

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292792
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-LD5-36-FGW080-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3159.0 lumens
Efficiency: N/A
Efficacy: 107.8 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

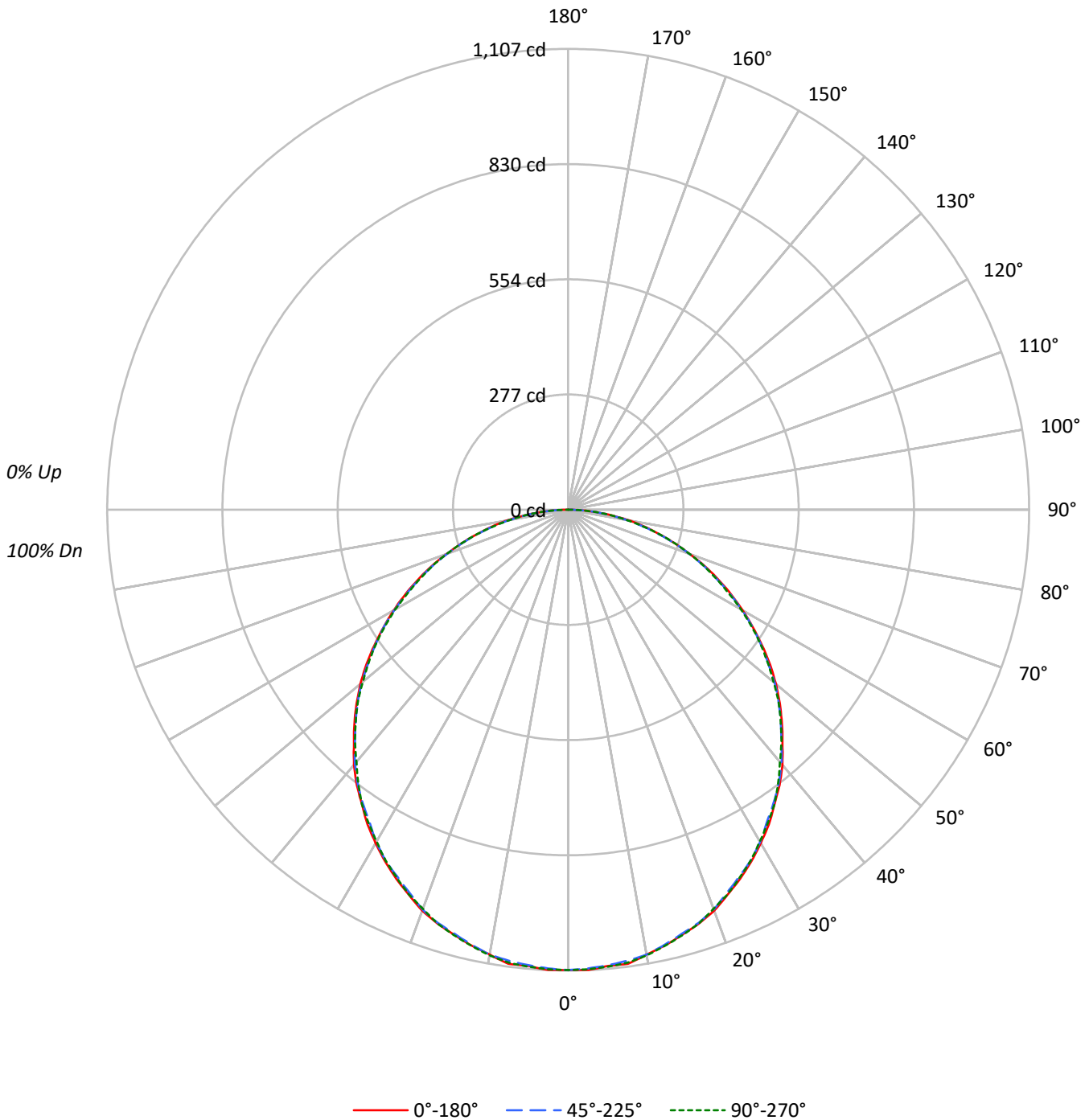
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2975	2975	2975
5°	2972	2967	2977
10°	2966	2966	2970
15°	2946	2938	2949
20°	2935	2927	2922
25°	2903	2886	2895
30°	2874	2865	2859
35°	2837	2825	2837
40°	2812	2799	2779
45°	2764	2747	2747
50°	2726	2711	2695
55°	2668	2650	2646
60°	2606	2591	2581
65°	2540	2510	2499
70°	2437	2430	2437
75°	2353	2324	2344
80°	2329	2213	2199
85°	2062	2004	2035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	3.3
10°-20°	298.4	9.4
20°-30°	449.4	14.2
30°-40°	539.3	17.1
40°-50°	558.0	17.7
50°-60°	505.7	16.0
60°-70°	392.0	12.4
70°-80°	237.9	7.5
80°-90°	73.6	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°	852.4	27.0
0°-40°	1391.7	44.1
0°-60°	2455.4	77.7
0°-90°	3159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3159.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1100	1100	1098	1101	1102	105
15°	1057	1057	1055	1059	1058	299
25°	978	976	972	976	975	451
35°	864	864	860	861	864	541
45°	726	725	722	722	722	560
55°	569	568	565	564	564	508
65°	399	399	394	396	392	394
75°	226	225	224	224	225	241
85°	67	66	65	65	66	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.7	1105.7	1105.7	1105.7	1105.7
2.5°	1106.6	1102.0	1102.9	1104.8	1104.8
5°	1100.1	1100.1	1098.3	1101.0	1102.0
7.5°	1100.1	1095.5	1092.7	1095.5	1097.3
10°	1085.3	1083.4	1085.3	1084.3	1087.1
12.5°	1072.3	1070.4	1070.4	1073.2	1073.2
15°	1057.4	1057.4	1054.7	1059.3	1058.4
17.5°	1042.6	1042.6	1040.7	1040.7	1042.6
20°	1025.0	1020.3	1022.2	1021.3	1020.3
22.5°	1000.9	998.1	996.2	999.0	999.9
25°	977.7	975.8	972.1	975.8	974.9
27.5°	952.6	950.8	949.8	948.0	949.8
30°	924.8	922.9	922.0	920.2	920.2
32.5°	897.0	893.3	888.6	893.3	892.3
35°	863.6	863.6	859.9	860.8	863.6
37.5°	833.9	832.0	830.2	827.4	828.3
40°	800.5	797.7	796.8	794.9	791.2
42.5°	761.5	761.5	757.8	758.8	757.8
45°	726.3	725.4	721.7	721.7	721.7
47.5°	689.2	688.3	685.5	683.6	685.5
50°	651.2	647.5	647.5	644.7	643.7
52.5°	611.3	608.5	604.8	605.7	603.9
55°	568.6	567.7	564.9	564.0	564.0
57.5°	525.9	526.9	525.0	521.3	522.2
60°	484.2	483.3	481.4	479.6	479.6
62.5°	441.5	441.5	437.8	437.8	434.1
65°	398.9	398.9	394.2	396.1	392.4
67.5°	356.2	355.3	352.5	351.6	352.5
70°	309.8	310.7	308.9	308.9	309.8
72.5°	268.1	267.1	266.2	266.2	268.1
75°	226.3	225.4	223.5	223.5	225.4
77.5°	188.3	183.7	182.7	184.6	181.8
80°	150.3	143.8	142.8	141.9	141.9
82.5°	105.7	103.0	103.9	103.0	104.8
85°	66.8	65.9	64.9	64.9	65.9
87.5°	31.5	29.7	29.7	28.8	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)