

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: P292832

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292832
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-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2568.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

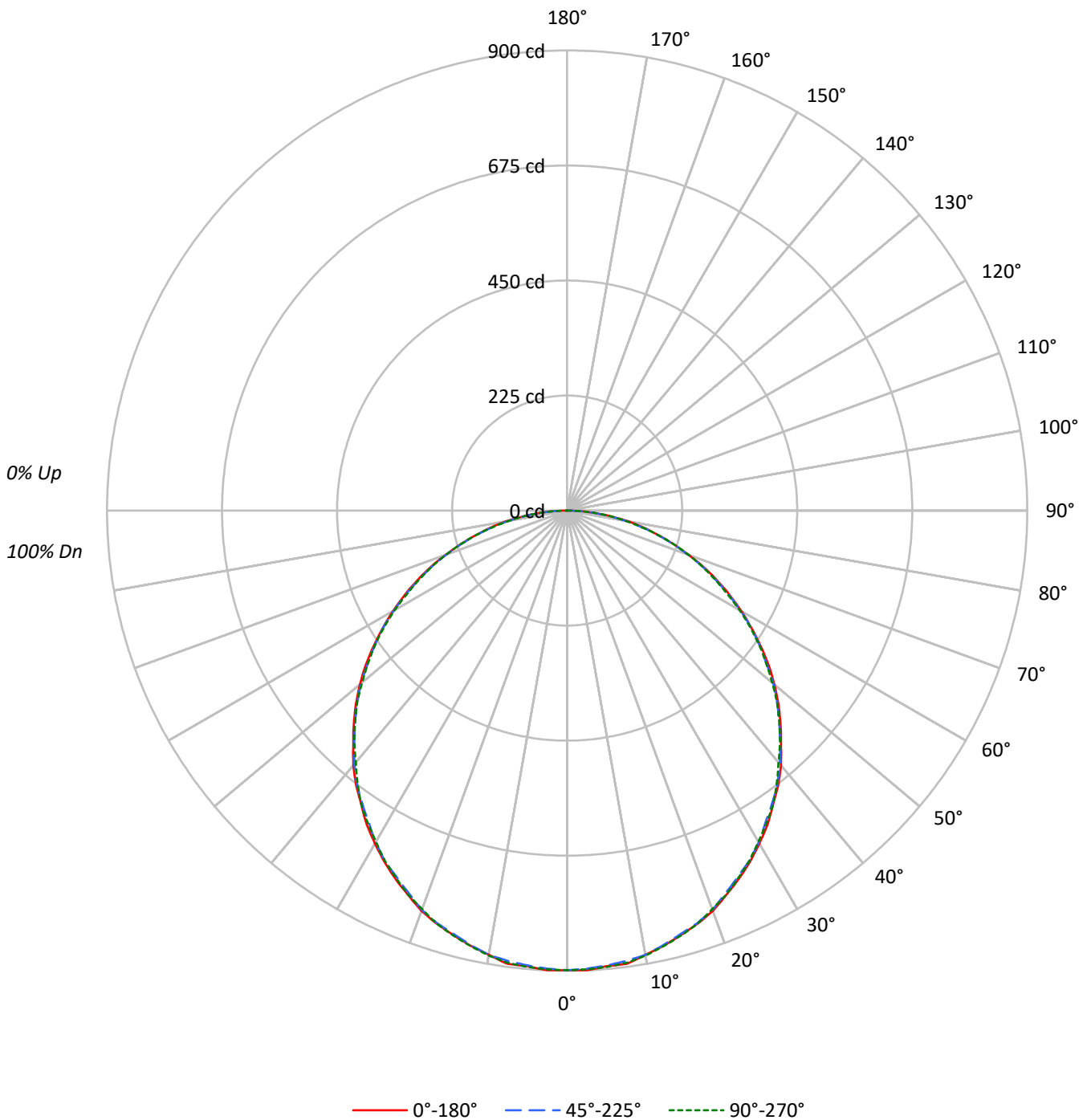
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2419	2419	2419
5°	2416	2412	2420
10°	2411	2411	2415
15°	2395	2389	2397
20°	2386	2380	2375
25°	2360	2346	2353
30°	2336	2329	2324
35°	2306	2296	2306
40°	2286	2275	2259
45°	2247	2232	2232
50°	2216	2203	2191
55°	2168	2154	2151
60°	2118	2106	2098
65°	2064	2041	2031
70°	1982	1976	1982
75°	1913	1889	1905
80°	1894	1799	1788
85°	1677	1630	1652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	3.3
10°-20°	242.6	9.4
20°-30°	365.3	14.2
30°-40°	438.4	17.1
40°-50°	453.6	17.7
50°-60°	411.1	16.0
60°-70°	318.6	12.4
70°-80°	193.4	7.5
80°-90°	59.9	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°	693.0	27.0
0°-40°	1131.4	44.1
0°-60°	1996.1	77.7
0°-90°	2568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	894	894	893	895	896	85
15°	860	860	857	861	860	243
25°	795	793	790	793	792	366
35°	702	702	699	700	702	440
45°	590	590	587	587	587	456
55°	462	462	459	458	458	413
65°	324	324	320	322	319	321
75°	184	183	182	182	183	196
85°	54	54	53	53	54	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.8	898.8	898.8	898.8	898.8
2.5°	899.6	895.8	896.6	898.1	898.1
5°	894.3	894.3	892.8	895.1	895.8
7.5°	894.3	890.5	888.3	890.5	892.0
10°	882.2	880.7	882.2	881.5	883.7
12.5°	871.7	870.2	870.2	872.4	872.4
15°	859.6	859.6	857.4	861.1	860.4
17.5°	847.5	847.5	846.0	846.0	847.5
20°	833.2	829.5	831.0	830.2	829.5
22.5°	813.6	811.4	809.8	812.1	812.9
25°	794.8	793.3	790.2	793.3	792.5
27.5°	774.4	772.9	772.1	770.6	772.1
30°	751.8	750.3	749.5	748.0	748.0
32.5°	729.2	726.1	722.4	726.1	725.4
35°	702.0	702.0	699.0	699.8	702.0
37.5°	677.9	676.4	674.9	672.6	673.4
40°	650.7	648.5	647.7	646.2	643.2
42.5°	619.1	619.1	616.1	616.8	616.1
45°	590.4	589.7	586.6	586.6	586.6
47.5°	560.3	559.5	557.2	555.7	557.2
50°	529.3	526.3	526.3	524.1	523.3
52.5°	496.9	494.7	491.6	492.4	490.9
55°	462.2	461.5	459.2	458.5	458.5
57.5°	427.5	428.3	426.8	423.8	424.5
60°	393.6	392.9	391.4	389.8	389.8
62.5°	358.9	358.9	355.9	355.9	352.9
65°	324.2	324.2	320.5	322.0	319.0
67.5°	289.6	288.8	286.5	285.8	286.5
70°	251.9	252.6	251.1	251.1	251.9
72.5°	217.9	217.2	216.4	216.4	217.9
75°	184.0	183.2	181.7	181.7	183.2
77.5°	153.1	149.3	148.5	150.1	147.8
80°	122.2	116.9	116.1	115.4	115.4
82.5°	86.0	83.7	84.5	83.7	85.2
85°	54.3	53.5	52.8	52.8	53.5
87.5°	25.6	24.1	24.1	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)