

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: P292836

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292836
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-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2650.0 lumens
Efficiency: N/A
Efficacy: 80.0 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

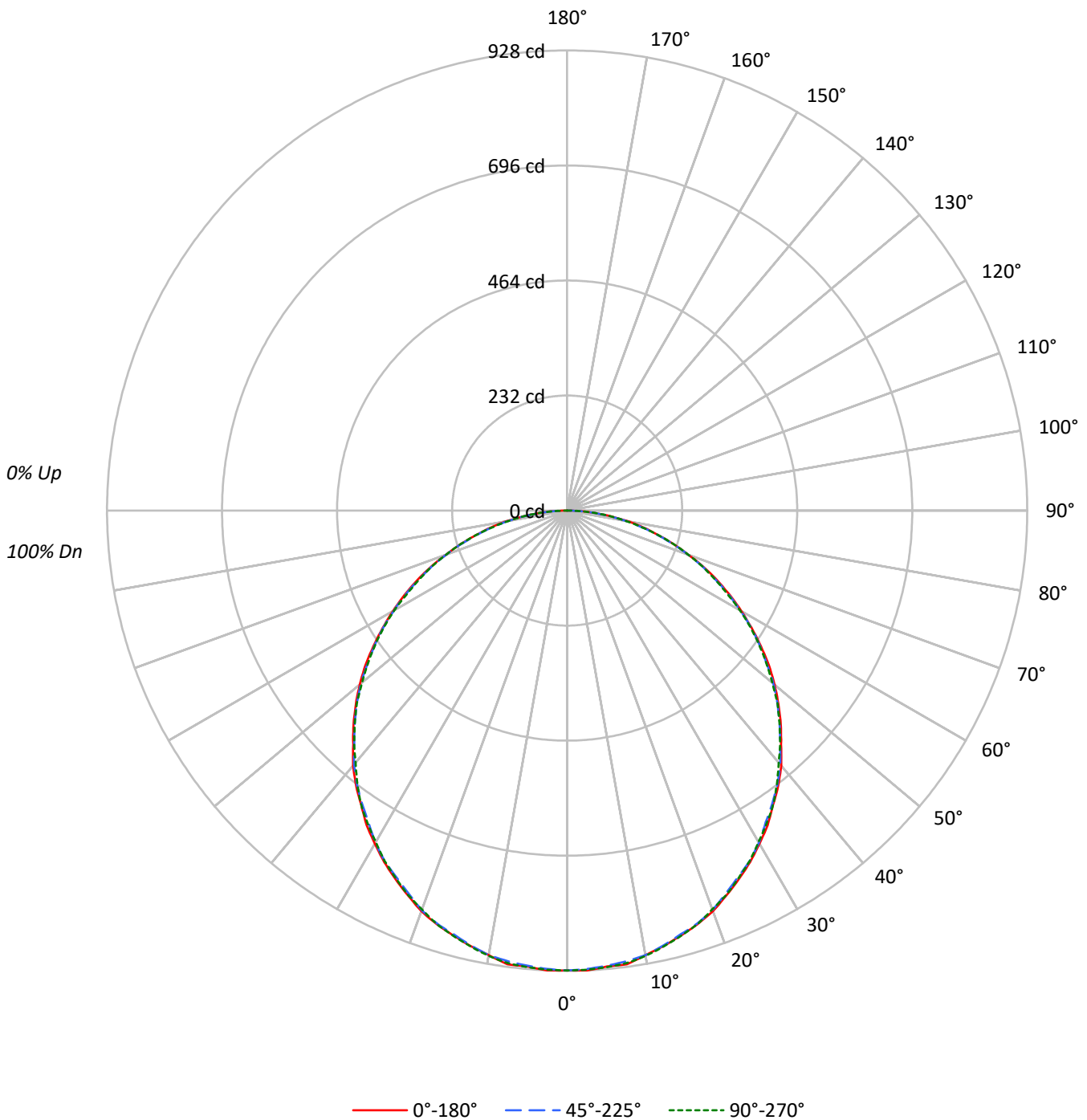
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2496	2496	2496
5°	2493	2489	2497
10°	2488	2488	2492
15°	2471	2465	2473
20°	2462	2456	2451
25°	2435	2421	2428
30°	2411	2403	2399
35°	2380	2370	2380
40°	2359	2348	2331
45°	2319	2304	2304
50°	2287	2274	2261
55°	2238	2223	2220
60°	2186	2173	2165
65°	2131	2106	2096
70°	2045	2039	2045
75°	1974	1949	1966
80°	1954	1857	1846
85°	1729	1683	1704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.3
10°-20°	250.4	9.4
20°-30°	377.0	14.2
30°-40°	452.4	17.1
40°-50°	468.1	17.7
50°-60°	424.2	16.0
60°-70°	328.8	12.4
70°-80°	199.6	7.5
80°-90°	61.8	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°	715.1	27.0
0°-40°	1167.5	44.1
0°-60°	2059.8	77.7
0°-90°	2650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	923	923	921	924	924	88
15°	887	887	885	889	888	251
25°	820	819	816	819	818	378
35°	724	724	721	722	724	454
45°	609	608	605	605	605	470
55°	477	476	474	473	473	427
65°	335	335	331	332	329	331
75°	190	189	188	188	189	202
85°	56	55	54	54	55	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.5	927.5	927.5	927.5	927.5
2.5°	928.3	924.4	925.2	926.7	926.7
5°	922.9	922.9	921.3	923.6	924.4
7.5°	922.9	919.0	916.6	919.0	920.5
10°	910.4	908.8	910.4	909.6	912.0
12.5°	899.5	898.0	898.0	900.3	900.3
15°	887.1	887.1	884.7	888.6	887.8
17.5°	874.6	874.6	873.1	873.1	874.6
20°	859.8	855.9	857.5	856.7	855.9
22.5°	839.6	837.3	835.7	838.0	838.8
25°	820.1	818.6	815.5	818.6	817.8
27.5°	799.1	797.6	796.8	795.2	796.8
30°	775.8	774.2	773.5	771.9	771.9
32.5°	752.4	749.3	745.4	749.3	748.6
35°	724.4	724.4	721.3	722.1	724.4
37.5°	699.5	698.0	696.4	694.1	694.9
40°	671.5	669.2	668.4	666.9	663.7
42.5°	638.8	638.8	635.7	636.5	635.7
45°	609.3	608.5	605.4	605.4	605.4
47.5°	578.1	577.4	575.0	573.5	575.0
50°	546.2	543.1	543.1	540.8	540.0
52.5°	512.8	510.4	507.3	508.1	506.6
55°	477.0	476.2	473.9	473.1	473.1
57.5°	441.2	442.0	440.4	437.3	438.1
60°	406.2	405.4	403.8	402.3	402.3
62.5°	370.4	370.4	367.3	367.3	364.2
65°	334.6	334.6	330.7	332.3	329.1
67.5°	298.8	298.0	295.7	294.9	295.7
70°	259.9	260.7	259.1	259.1	259.9
72.5°	224.9	224.1	223.3	223.3	224.9
75°	189.9	189.1	187.5	187.5	189.1
77.5°	158.0	154.1	153.3	154.8	152.5
80°	126.1	120.6	119.8	119.1	119.1
82.5°	88.7	86.4	87.1	86.4	87.9
85°	56.0	55.2	54.5	54.5	55.2
87.5°	26.5	24.9	24.9	24.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)