

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: P292728

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292728
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-LD5-32-FGW080-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2544.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

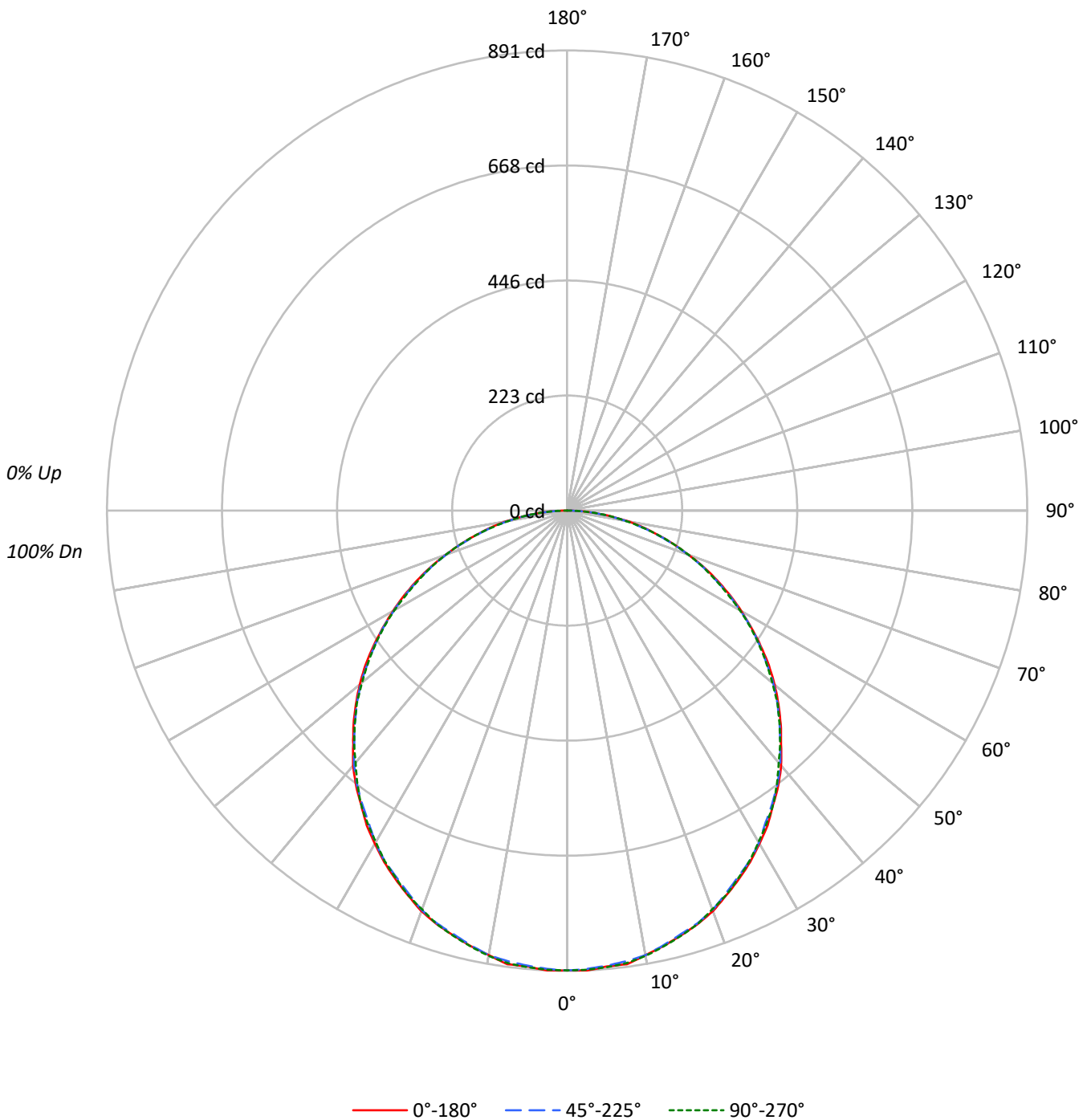
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2396	2396	2396
5°	2393	2389	2397
10°	2388	2388	2392
15°	2372	2366	2374
20°	2364	2357	2353
25°	2338	2325	2331
30°	2314	2307	2302
35°	2285	2275	2285
40°	2265	2254	2238
45°	2226	2212	2212
50°	2195	2183	2170
55°	2148	2134	2131
60°	2098	2087	2079
65°	2045	2022	2012
70°	1963	1958	1963
75°	1895	1871	1887
80°	1875	1782	1771
85°	1661	1615	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.3
10°-20°	240.3	9.4
20°-30°	361.9	14.2
30°-40°	434.3	17.1
40°-50°	449.4	17.7
50°-60°	407.2	16.0
60°-70°	315.7	12.4
70°-80°	191.6	7.5
80°-90°	59.3	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°	686.5	27.0
0°-40°	1120.8	44.1
0°-60°	1977.4	77.7
0°-90°	2544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	886	886	884	887	887	84
15°	852	852	849	853	852	241
25°	787	786	783	786	785	363
35°	696	696	692	693	696	436
45°	585	584	581	581	581	451
55°	458	457	455	454	454	409
65°	321	321	318	319	316	318
75°	182	182	180	180	182	194
85°	54	53	52	52	53	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	890.4	890.4	890.4	890.4	890.4
2.5°	891.2	887.4	888.2	889.7	889.7
5°	885.9	885.9	884.4	886.7	887.4
7.5°	885.9	882.2	880.0	882.2	883.7
10°	874.0	872.5	874.0	873.2	875.5
12.5°	863.5	862.0	862.0	864.3	864.3
15°	851.6	851.6	849.3	853.1	852.3
17.5°	839.6	839.6	838.1	838.1	839.6
20°	825.4	821.7	823.2	822.4	821.7
22.5°	806.0	803.8	802.3	804.5	805.3
25°	787.3	785.8	782.9	785.8	785.1
27.5°	767.2	765.7	764.9	763.4	764.9
30°	744.8	743.3	742.5	741.0	741.0
32.5°	722.3	719.4	715.6	719.4	718.6
35°	695.5	695.5	692.5	693.2	695.5
37.5°	671.6	670.1	668.6	666.3	667.1
40°	644.7	642.4	641.7	640.2	637.2
42.5°	613.3	613.3	610.3	611.0	610.3
45°	584.9	584.2	581.2	581.2	581.2
47.5°	555.0	554.3	552.0	550.5	552.0
50°	524.4	521.4	521.4	519.2	518.4
52.5°	492.3	490.0	487.0	487.8	486.3
55°	457.9	457.2	454.9	454.2	454.2
57.5°	423.5	424.3	422.8	419.8	420.6
60°	389.9	389.2	387.7	386.2	386.2
62.5°	355.6	355.6	352.6	352.6	349.6
65°	321.2	321.2	317.5	319.0	316.0
67.5°	286.8	286.1	283.9	283.1	283.9
70°	249.5	250.2	248.8	248.8	249.5
72.5°	215.9	215.1	214.4	214.4	215.9
75°	182.3	181.5	180.0	180.0	181.5
77.5°	151.6	147.9	147.2	148.7	146.4
80°	121.0	115.8	115.0	114.3	114.3
82.5°	85.2	82.9	83.7	82.9	84.4
85°	53.8	53.0	52.3	52.3	53.0
87.5°	25.4	23.9	23.9	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)