

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: P292775

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292775
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-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2470.0 lumens
Efficiency: N/A
Efficacy: 100.6 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

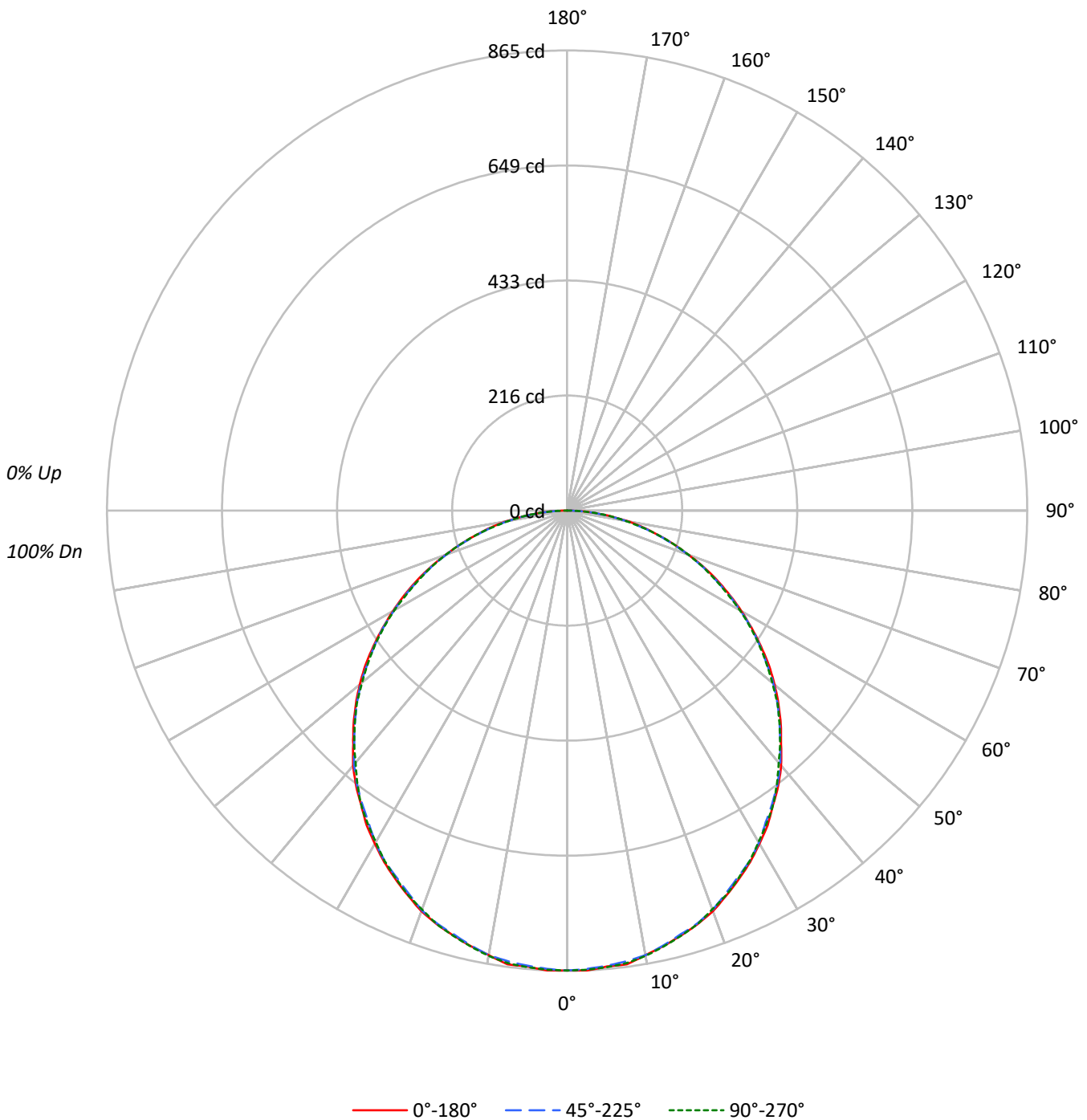
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2326	2326	2326
5°	2324	2320	2327
10°	2319	2319	2323
15°	2303	2297	2305
20°	2295	2289	2285
25°	2270	2257	2263
30°	2247	2240	2236
35°	2218	2209	2218
40°	2199	2188	2173
45°	2161	2148	2148
50°	2131	2119	2107
55°	2086	2072	2069
60°	2038	2026	2018
65°	1986	1962	1954
70°	1906	1900	1906
75°	1840	1817	1832
80°	1821	1731	1720
85°	1612	1568	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.3
10°-20°	233.4	9.4
20°-30°	351.4	14.2
30°-40°	421.7	17.1
40°-50°	436.3	17.7
50°-60°	395.4	16.0
60°-70°	306.5	12.4
70°-80°	186.1	7.5
80°-90°	57.6	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°	666.5	27.0
0°-40°	1088.2	44.1
0°-60°	1919.9	77.7
0°-90°	2470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	860	860	859	861	862	82
15°	827	827	825	828	828	234
25°	764	763	760	763	762	352
35°	675	675	672	673	675	423
45°	568	567	564	564	564	438
55°	445	444	442	441	441	398
65°	312	312	308	310	307	308
75°	177	176	175	175	176	188
85°	52	52	51	51	52	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.5	864.5	864.5	864.5	864.5
2.5°	865.2	861.6	862.3	863.8	863.8
5°	860.2	860.2	858.7	860.9	861.6
7.5°	860.2	856.5	854.4	856.5	858.0
10°	848.6	847.1	848.6	847.8	850.0
12.5°	838.4	837.0	837.0	839.1	839.1
15°	826.8	826.8	824.6	828.3	827.5
17.5°	815.2	815.2	813.8	813.8	815.2
20°	801.4	797.8	799.2	798.5	797.8
22.5°	782.6	780.4	778.9	781.1	781.8
25°	764.4	763.0	760.1	763.0	762.3
27.5°	744.9	743.4	742.7	741.2	742.7
30°	723.1	721.6	720.9	719.5	719.5
32.5°	701.3	698.4	694.8	698.4	697.7
35°	675.2	675.2	672.3	673.1	675.2
37.5°	652.0	650.6	649.1	646.9	647.7
40°	625.9	623.7	623.0	621.6	618.7
42.5°	595.4	595.4	592.5	593.3	592.5
45°	567.9	567.2	564.3	564.3	564.3
47.5°	538.9	538.2	536.0	534.5	536.0
50°	509.1	506.2	506.2	504.1	503.3
52.5°	478.0	475.8	472.9	473.6	472.2
55°	444.6	443.9	441.7	441.0	441.0
57.5°	411.2	412.0	410.5	407.6	408.3
60°	378.6	377.9	376.4	375.0	375.0
62.5°	345.2	345.2	342.3	342.3	339.4
65°	311.9	311.9	308.2	309.7	306.8
67.5°	278.5	277.8	275.6	274.9	275.6
70°	242.2	243.0	241.5	241.5	242.2
72.5°	209.6	208.9	208.2	208.2	209.6
75°	177.0	176.2	174.8	174.8	176.2
77.5°	147.2	143.6	142.9	144.3	142.2
80°	117.5	112.4	111.7	111.0	111.0
82.5°	82.7	80.5	81.2	80.5	82.0
85°	52.2	51.5	50.8	50.8	51.5
87.5°	24.7	23.2	23.2	22.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)