

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: P292879

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292879
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-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2527.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

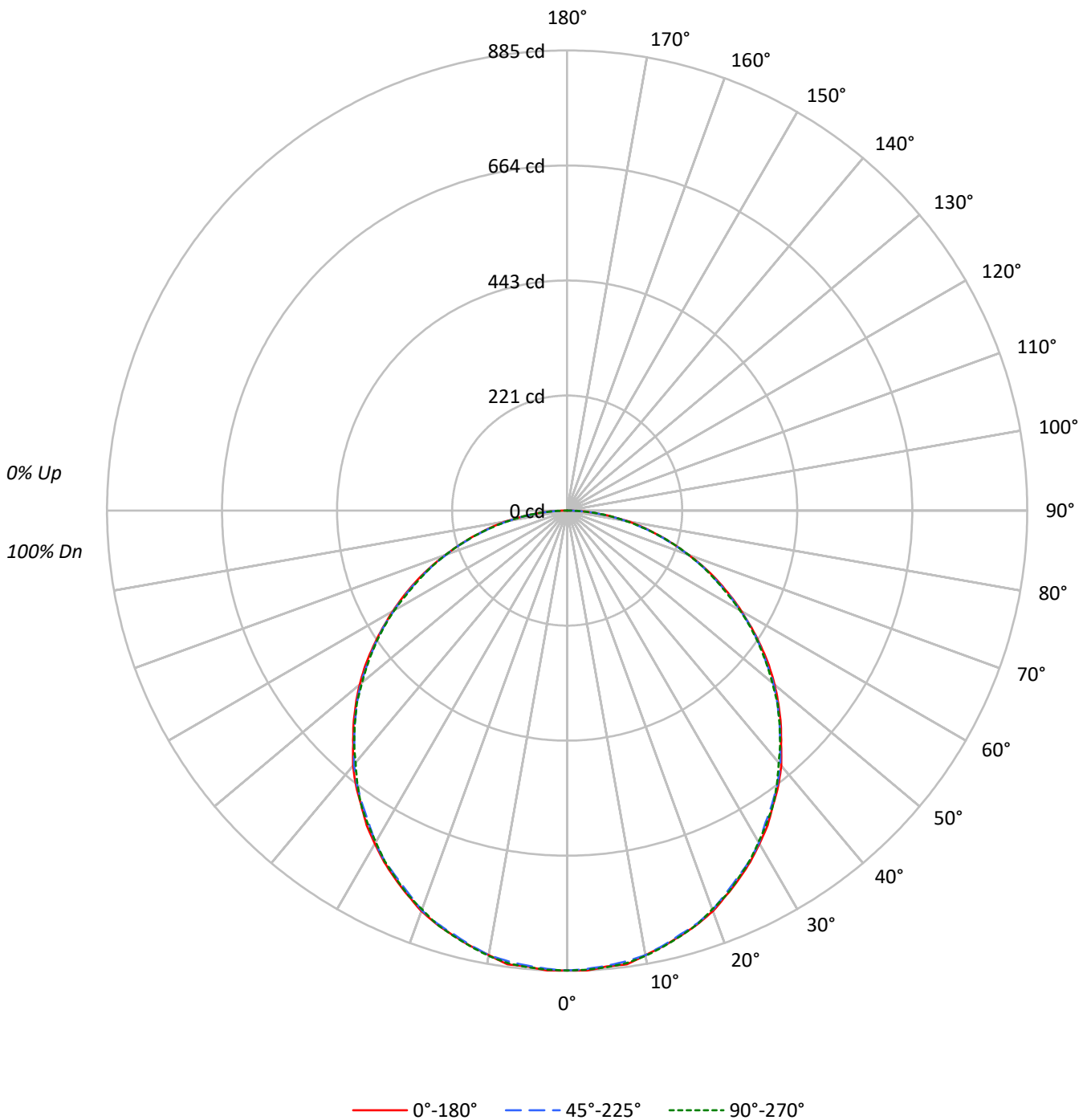
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2380	2380	2380
5°	2377	2373	2381
10°	2372	2372	2376
15°	2357	2350	2359
20°	2348	2342	2337
25°	2322	2309	2316
30°	2299	2292	2287
35°	2269	2259	2269
40°	2250	2239	2223
45°	2211	2197	2197
50°	2181	2168	2156
55°	2134	2120	2116
60°	2084	2073	2065
65°	2032	2008	1999
70°	1950	1944	1950
75°	1882	1859	1875
80°	1863	1771	1759
85°	1649	1602	1627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	3.3
10°-20°	238.7	9.4
20°-30°	359.5	14.2
30°-40°	431.4	17.1
40°-50°	446.4	17.7
50°-60°	404.5	16.0
60°-70°	313.6	12.4
70°-80°	190.3	7.5
80°-90°	58.9	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°	681.9	27.0
0°-40°	1113.3	44.1
0°-60°	1964.2	77.7
0°-90°	2527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	880	880	878	881	882	84
15°	846	846	844	847	847	239
25°	782	781	778	781	780	360
35°	691	691	688	689	691	433
45°	581	580	577	577	577	448
55°	455	454	452	451	451	407
65°	319	319	315	317	314	315
75°	181	180	179	179	180	193
85°	53	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°	884.5	884.5	884.5	884.5	884.5
2.5°	885.2	881.5	882.2	883.7	883.7
5°	880.0	880.0	878.5	880.8	881.5
7.5°	880.0	876.3	874.1	876.3	877.8
10°	868.1	866.7	868.1	867.4	869.6
12.5°	857.8	856.3	856.3	858.5	858.5
15°	845.9	845.9	843.7	847.4	846.6
17.5°	834.0	834.0	832.5	832.5	834.0
20°	819.9	816.2	817.7	817.0	816.2
22.5°	800.6	798.4	796.9	799.1	799.9
25°	782.1	780.6	777.6	780.6	779.9
27.5°	762.0	760.6	759.8	758.3	759.8
30°	739.8	738.3	737.6	736.1	736.1
32.5°	717.5	714.6	710.8	714.6	713.8
35°	690.8	690.8	687.8	688.6	690.8
37.5°	667.1	665.6	664.1	661.9	662.6
40°	640.4	638.1	637.4	635.9	632.9
42.5°	609.2	609.2	606.2	607.0	606.2
45°	581.0	580.3	577.3	577.3	577.3
47.5°	551.3	550.6	548.3	546.9	548.3
50°	520.9	517.9	517.9	515.7	515.0
52.5°	489.0	486.8	483.8	484.5	483.0
55°	454.9	454.1	451.9	451.1	451.1
57.5°	420.7	421.5	420.0	417.0	417.8
60°	387.3	386.6	385.1	383.6	383.6
62.5°	353.2	353.2	350.2	350.2	347.3
65°	319.1	319.1	315.4	316.8	313.9
67.5°	284.9	284.2	282.0	281.2	282.0
70°	247.8	248.6	247.1	247.1	247.8
72.5°	214.4	213.7	213.0	213.0	214.4
75°	181.0	180.3	178.8	178.8	180.3
77.5°	150.6	146.9	146.2	147.7	145.4
80°	120.2	115.0	114.3	113.5	113.5
82.5°	84.6	82.4	83.1	82.4	83.8
85°	53.4	52.7	51.9	51.9	52.7
87.5°	25.2	23.7	23.7	23.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)