

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: P292778

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292778
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-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2687.0 lumens
Efficiency: N/A
Efficacy: 108.2 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

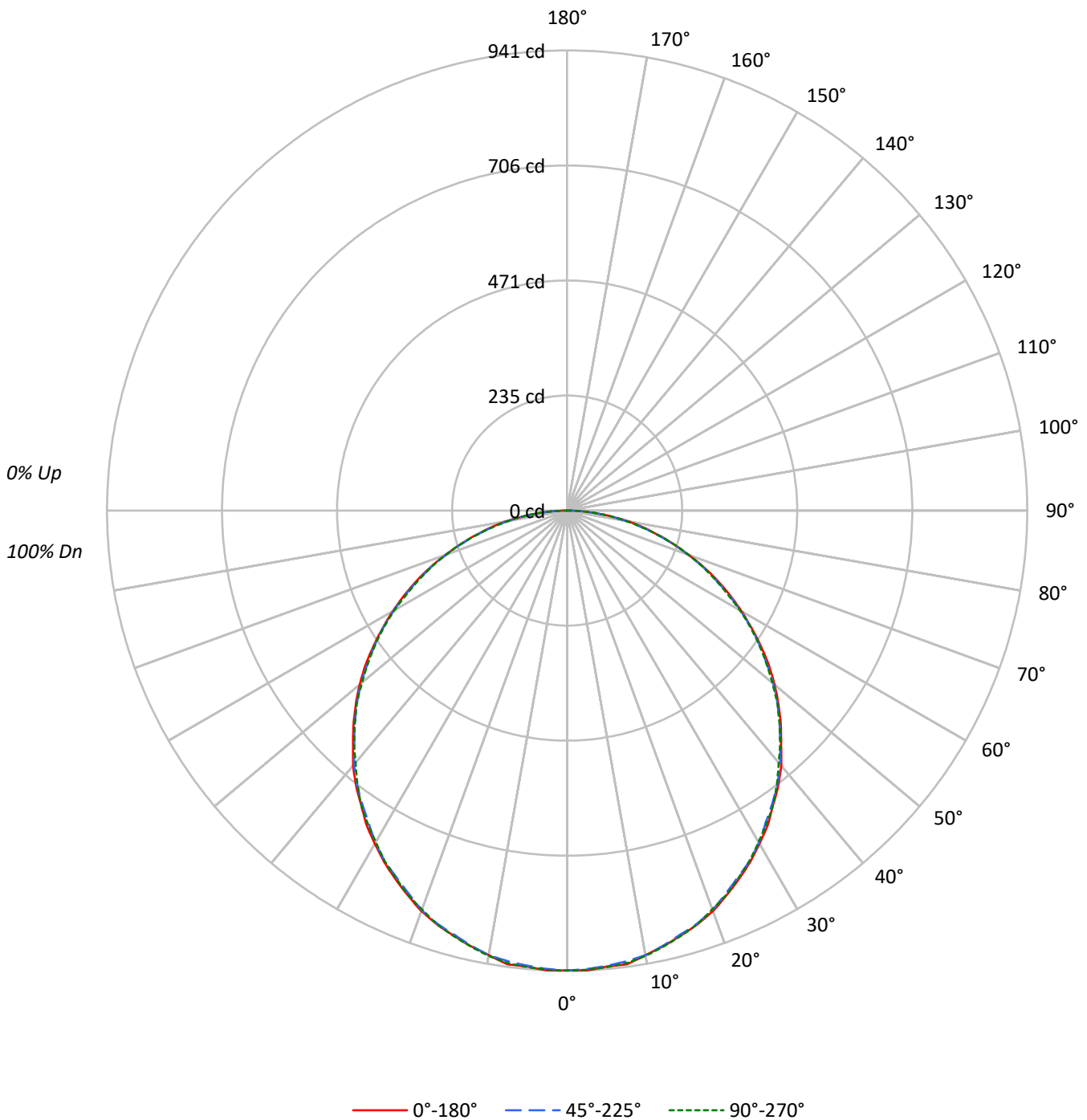
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2531	2531	2531
5°	2528	2524	2532
10°	2522	2522	2527
15°	2506	2499	2508
20°	2497	2490	2485
25°	2469	2455	2462
30°	2444	2437	2432
35°	2413	2403	2413
40°	2392	2381	2364
45°	2351	2336	2336
50°	2319	2305	2292
55°	2269	2254	2251
60°	2217	2204	2195
65°	2160	2135	2125
70°	2073	2067	2073
75°	2001	1976	1993
80°	1980	1883	1870
85°	1754	1704	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.3
10°-20°	253.8	9.4
20°-30°	382.2	14.2
30°-40°	458.7	17.1
40°-50°	474.7	17.7
50°-60°	430.1	16.0
60°-70°	333.4	12.4
70°-80°	202.4	7.5
80°-90°	62.6	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°	725.1	27.0
0°-40°	1183.8	44.1
0°-60°	2088.6	77.7
0°-90°	2687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	936	936	934	936	937	89
15°	899	899	897	901	900	254
25°	832	830	827	830	829	383
35°	734	734	731	732	734	461
45°	618	617	614	614	614	477
55°	484	483	480	480	480	433
65°	339	339	335	337	334	335
75°	192	192	190	190	192	205
85°	57	56	55	55	56	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.5	940.5	940.5	940.5	940.5
2.5°	941.3	937.3	938.1	939.7	939.7
5°	935.7	935.7	934.2	936.5	937.3
7.5°	935.7	931.8	929.4	931.8	933.4
10°	923.1	921.5	923.1	922.3	924.7
12.5°	912.1	910.5	910.5	912.9	912.9
15°	899.4	899.4	897.1	901.0	900.2
17.5°	886.8	886.8	885.2	885.2	886.8
20°	871.8	867.9	869.5	868.7	867.9
22.5°	851.3	849.0	847.4	849.7	850.5
25°	831.6	830.0	826.9	830.0	829.2
27.5°	810.3	808.7	807.9	806.3	807.9
30°	786.6	785.0	784.3	782.7	782.7
32.5°	763.0	759.8	755.9	759.8	759.0
35°	734.5	734.5	731.4	732.2	734.5
37.5°	709.3	707.7	706.1	703.8	704.6
40°	680.9	678.5	677.7	676.2	673.0
42.5°	647.8	647.8	644.6	645.4	644.6
45°	617.8	617.0	613.8	613.8	613.8
47.5°	586.2	585.4	583.1	581.5	583.1
50°	553.9	550.7	550.7	548.3	547.6
52.5°	519.9	517.6	514.4	515.2	513.6
55°	483.7	482.9	480.5	479.7	479.7
57.5°	447.4	448.1	446.6	443.4	444.2
60°	411.9	411.1	409.5	407.9	407.9
62.5°	375.6	375.6	372.4	372.4	369.2
65°	339.3	339.3	335.3	336.9	333.7
67.5°	303.0	302.2	299.8	299.0	299.8
70°	263.5	264.3	262.7	262.7	263.5
72.5°	228.0	227.2	226.4	226.4	228.0
75°	192.5	191.7	190.1	190.1	191.7
77.5°	160.2	156.2	155.4	157.0	154.6
80°	127.8	122.3	121.5	120.7	120.7
82.5°	89.9	87.6	88.4	87.6	89.2
85°	56.8	56.0	55.2	55.2	56.0
87.5°	26.8	25.2	25.2	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)