

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: P292781

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292781
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2799.0 lumens
Efficiency: N/A
Efficacy: 111.1 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

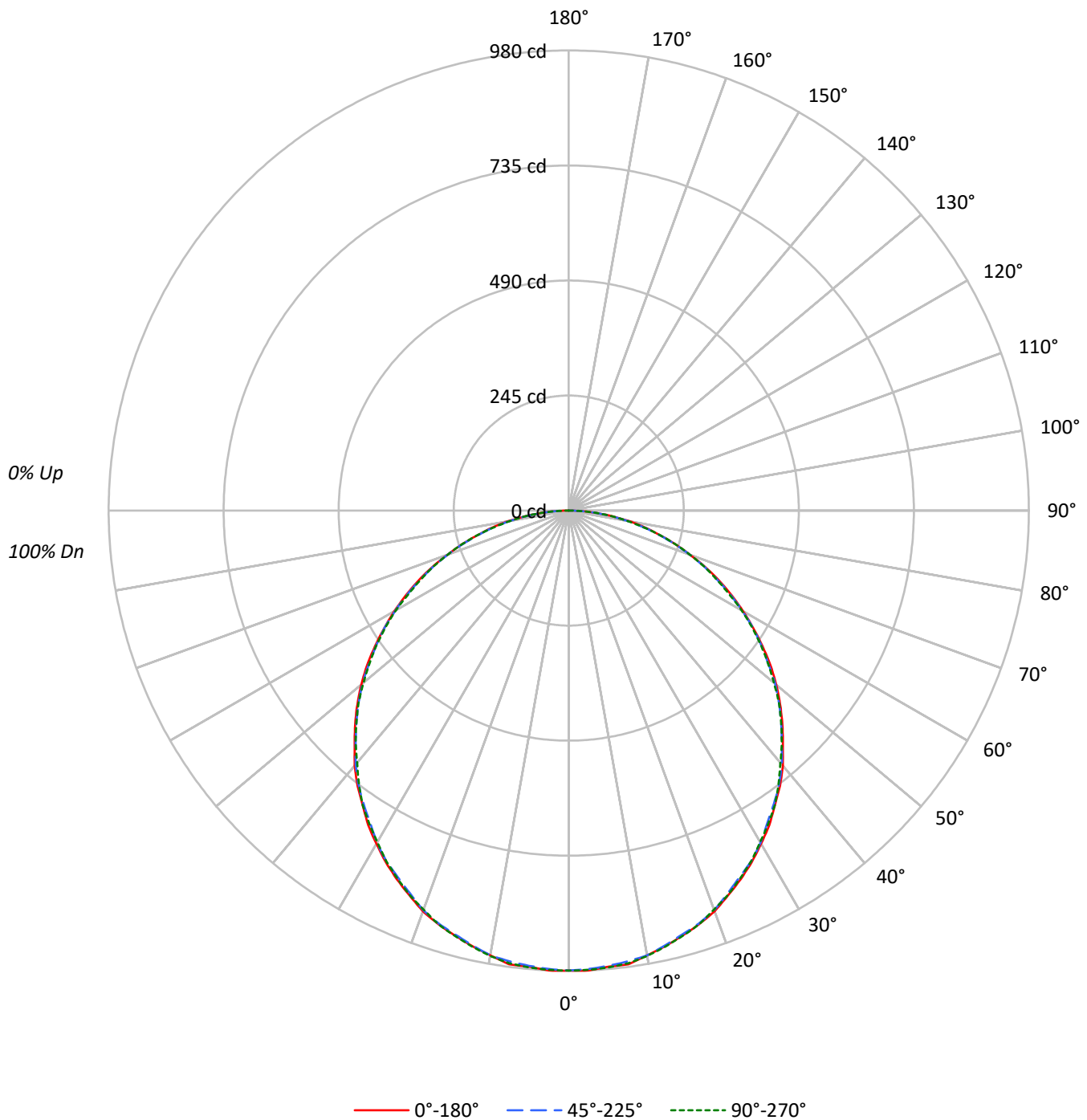
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2636	2636	2636
5°	2633	2629	2638
10°	2628	2628	2632
15°	2610	2603	2613
20°	2601	2594	2589
25°	2572	2557	2565
30°	2546	2538	2533
35°	2514	2503	2514
40°	2492	2480	2463
45°	2449	2433	2433
50°	2416	2402	2388
55°	2364	2348	2344
60°	2309	2296	2287
65°	2250	2224	2214
70°	2160	2153	2160
75°	2085	2060	2076
80°	2063	1962	1948
85°	1828	1775	1803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	3.3
10°-20°	264.4	9.4
20°-30°	398.2	14.2
30°-40°	477.8	17.1
40°-50°	494.4	17.7
50°-60°	448.0	16.0
60°-70°	347.3	12.4
70°-80°	210.8	7.5
80°-90°	65.3	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°	755.3	27.0
0°-40°	1233.1	44.1
0°-60°	2175.6	77.7
0°-90°	2799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	975	975	973	976	976	93
15°	937	937	934	939	938	265
25°	866	865	861	865	864	399
35°	765	765	762	763	765	480
45°	644	643	639	639	639	497
55°	504	503	500	500	500	451
65°	353	353	349	351	348	349
75°	200	200	198	198	200	213
85°	59	58	58	58	58	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.7	979.7	979.7	979.7	979.7
2.5°	980.5	976.4	977.2	978.9	978.9
5°	974.7	974.7	973.1	975.6	976.4
7.5°	974.7	970.6	968.2	970.6	972.3
10°	961.6	960.0	961.6	960.8	963.2
12.5°	950.1	948.4	948.4	950.9	950.9
15°	936.9	936.9	934.5	938.6	937.8
17.5°	923.8	923.8	922.1	922.1	923.8
20°	908.2	904.1	905.7	904.9	904.1
22.5°	886.8	884.3	882.7	885.2	886.0
25°	866.3	864.6	861.3	864.6	863.8
27.5°	844.1	842.4	841.6	840.0	841.6
30°	819.4	817.8	816.9	815.3	815.3
32.5°	794.8	791.5	787.4	791.5	790.6
35°	765.2	765.2	761.9	762.7	765.2
37.5°	738.9	737.2	735.6	733.1	733.9
40°	709.3	706.8	706.0	704.3	701.1
42.5°	674.8	674.8	671.5	672.3	671.5
45°	643.5	642.7	639.4	639.4	639.4
47.5°	610.7	609.8	607.4	605.7	607.4
50°	577.0	573.7	573.7	571.2	570.4
52.5°	541.6	539.2	535.9	536.7	535.0
55°	503.8	503.0	500.5	499.7	499.7
57.5°	466.0	466.8	465.2	461.9	462.7
60°	429.0	428.2	426.6	424.9	424.9
62.5°	391.2	391.2	387.9	387.9	384.6
65°	353.4	353.4	349.3	350.9	347.7
67.5°	315.6	314.8	312.3	311.5	312.3
70°	274.5	275.3	273.7	273.7	274.5
72.5°	237.5	236.7	235.9	235.9	237.5
75°	200.5	199.7	198.1	198.1	199.7
77.5°	166.8	162.7	161.9	163.6	161.1
80°	133.1	127.4	126.6	125.7	125.7
82.5°	93.7	91.2	92.1	91.2	92.9
85°	59.2	58.4	57.5	57.5	58.4
87.5°	27.9	26.3	26.3	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)