

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: P292763

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292763
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-LD5-24-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: 2119.0 lumens
Efficiency: N/A
Efficacy: 113.9 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

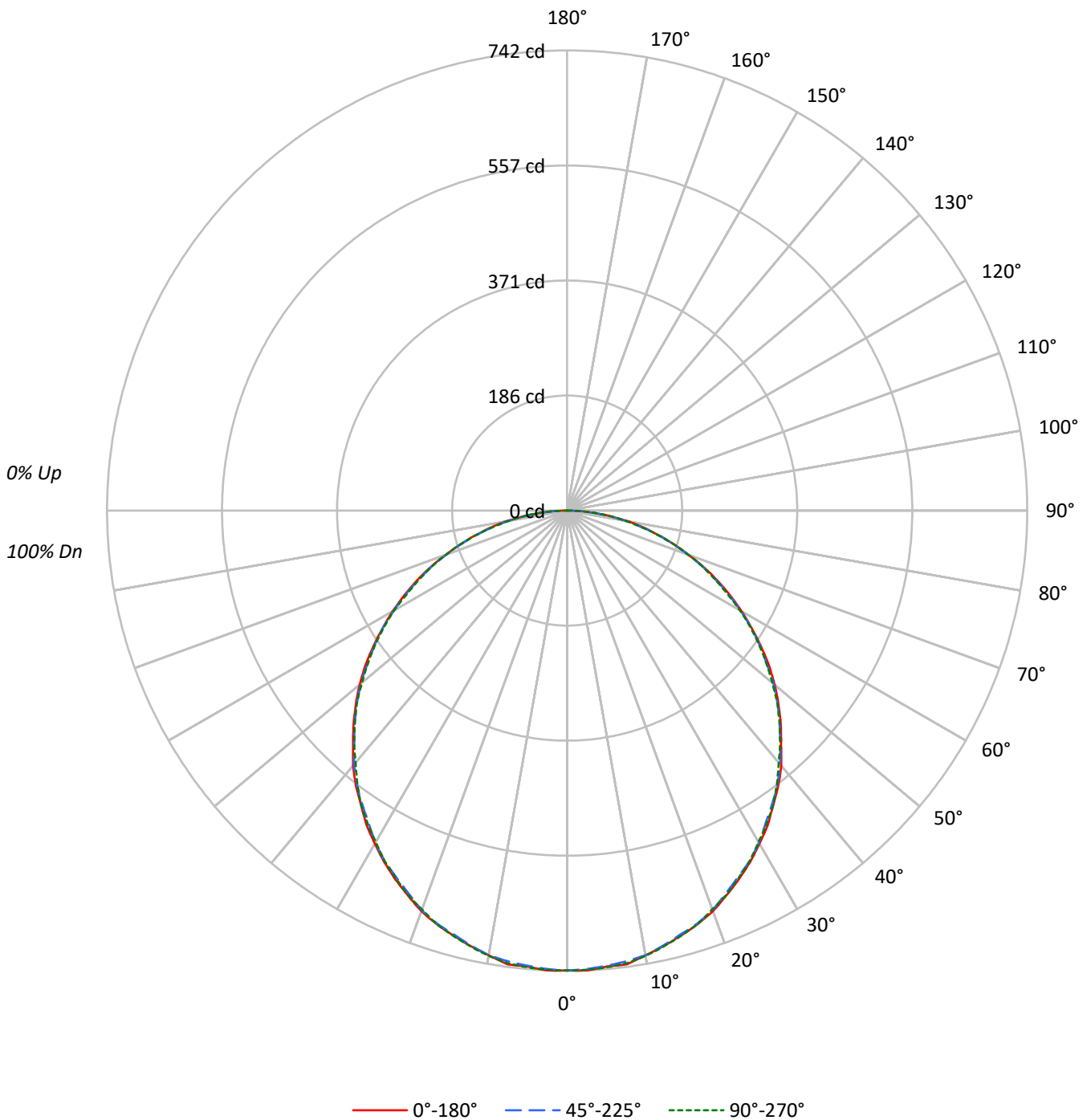
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1996	1996	1996
5°	1993	1990	1997
10°	1989	1989	1993
15°	1976	1971	1978
20°	1969	1964	1960
25°	1947	1936	1942
30°	1927	1922	1918
35°	1903	1895	1903
40°	1886	1878	1864
45°	1854	1842	1842
50°	1829	1818	1808
55°	1789	1778	1775
60°	1748	1738	1731
65°	1703	1684	1676
70°	1635	1630	1635
75°	1578	1560	1572
80°	1562	1485	1475
85°	1383	1346	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	3.3
10°-20°	200.2	9.4
20°-30°	301.4	14.2
30°-40°	361.8	17.1
40°-50°	374.3	17.7
50°-60°	339.2	16.0
60°-70°	262.9	12.4
70°-80°	159.6	7.5
80°-90°	49.4	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°	571.8	27.0
0°-40°	933.6	44.1
0°-60°	1647.1	77.7
0°-90°	2119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	738	738	737	739	739	70
15°	709	709	707	711	710	200
25°	656	655	652	655	654	302
35°	579	579	577	577	579	363
45°	487	487	484	484	484	376
55°	381	381	379	378	378	341
65°	268	268	264	266	263	265
75°	152	151	150	150	151	161
85°	45	44	44	44	44	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.7	741.7	741.7	741.7	741.7
2.5°	742.3	739.2	739.8	741.0	741.0
5°	737.9	737.9	736.7	738.6	739.2
7.5°	737.9	734.8	733.0	734.8	736.1
10°	728.0	726.7	728.0	727.4	729.2
12.5°	719.3	718.0	718.0	719.9	719.9
15°	709.3	709.3	707.4	710.6	709.9
17.5°	699.4	699.4	698.1	698.1	699.4
20°	687.5	684.4	685.7	685.0	684.4
22.5°	671.4	669.5	668.2	670.1	670.7
25°	655.8	654.6	652.1	654.6	653.9
27.5°	639.0	637.8	637.1	635.9	637.1
30°	620.3	619.1	618.5	617.2	617.2
32.5°	601.7	599.2	596.1	599.2	598.6
35°	579.3	579.3	576.8	577.4	579.3
37.5°	559.4	558.1	556.9	555.0	555.6
40°	537.0	535.1	534.5	533.2	530.7
42.5°	510.8	510.8	508.3	509.0	508.3
45°	487.2	486.6	484.1	484.1	484.1
47.5°	462.3	461.7	459.8	458.6	459.8
50°	436.8	434.3	434.3	432.4	431.8
52.5°	410.0	408.2	405.7	406.3	405.1
55°	381.4	380.8	378.9	378.3	378.3
57.5°	352.8	353.4	352.2	349.7	350.3
60°	324.8	324.2	322.9	321.7	321.7
62.5°	296.2	296.2	293.7	293.7	291.2
65°	267.5	267.5	264.4	265.7	263.2
67.5°	238.9	238.3	236.4	235.8	236.4
70°	207.8	208.4	207.2	207.2	207.8
72.5°	179.8	179.2	178.6	178.6	179.8
75°	151.8	151.2	150.0	150.0	151.2
77.5°	126.3	123.2	122.6	123.8	122.0
80°	100.8	96.4	95.8	95.2	95.2
82.5°	70.9	69.1	69.7	69.1	70.3
85°	44.8	44.2	43.6	43.6	44.2
87.5°	21.2	19.9	19.9	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)