

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: P292863

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292863
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-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1934.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

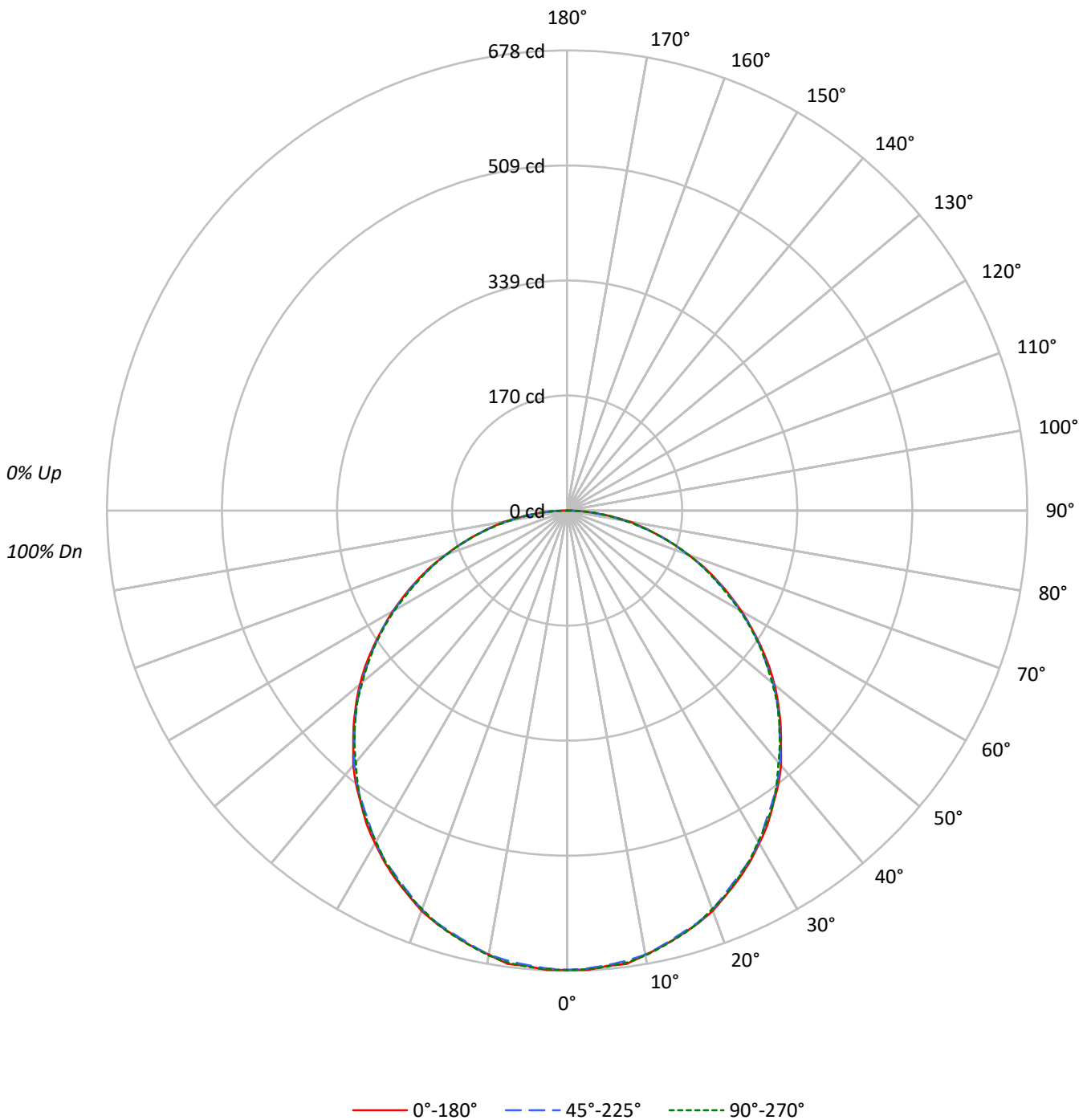
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1822	1822	1822
5°	1819	1816	1822
10°	1815	1815	1819
15°	1804	1799	1805
20°	1797	1792	1789
25°	1777	1767	1772
30°	1759	1754	1750
35°	1737	1729	1737
40°	1722	1714	1702
45°	1692	1681	1681
50°	1669	1659	1650
55°	1633	1622	1620
60°	1595	1586	1580
65°	1555	1537	1529
70°	1493	1488	1493
75°	1441	1423	1435
80°	1426	1356	1347
85°	1263	1229	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	3.3
10°-20°	182.7	9.4
20°-30°	275.1	14.2
30°-40°	330.2	17.1
40°-50°	341.6	17.7
50°-60°	309.6	16.0
60°-70°	240.0	12.4
70°-80°	145.7	7.5
80°-90°	45.1	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°	521.9	27.0
0°-40°	852.0	44.1
0°-60°	1503.3	77.7
0°-90°	1934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	674	674	672	674	675	64
15°	647	647	646	648	648	183
25°	599	597	595	597	597	276
35°	529	529	526	527	529	331
45°	445	444	442	442	442	343
55°	348	348	346	345	345	311
65°	244	244	241	242	240	241
75°	139	138	137	137	138	147
85°	41	40	40	40	40	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.9	676.9	676.9	676.9	676.9
2.5°	677.5	674.6	675.2	676.4	676.4
5°	673.5	673.5	672.4	674.1	674.6
7.5°	673.5	670.7	669.0	670.7	671.8
10°	664.4	663.3	664.4	663.9	665.6
12.5°	656.5	655.3	655.3	657.0	657.0
15°	647.4	647.4	645.7	648.5	648.0
17.5°	638.3	638.3	637.2	637.2	638.3
20°	627.5	624.7	625.8	625.2	624.7
22.5°	612.7	611.0	609.9	611.6	612.2
25°	598.6	597.4	595.1	597.4	596.8
27.5°	583.2	582.1	581.5	580.4	581.5
30°	566.2	565.0	564.5	563.3	563.3
32.5°	549.1	546.9	544.0	546.9	546.3
35°	528.7	528.7	526.4	527.0	528.7
37.5°	510.5	509.4	508.3	506.6	507.1
40°	490.1	488.4	487.8	486.7	484.4
42.5°	466.2	466.2	464.0	464.5	464.0
45°	444.7	444.1	441.8	441.8	441.8
47.5°	421.9	421.4	419.7	418.5	419.7
50°	398.7	396.4	396.4	394.7	394.1
52.5°	374.2	372.5	370.3	370.8	369.7
55°	348.1	347.5	345.8	345.3	345.3
57.5°	322.0	322.6	321.4	319.2	319.7
60°	296.4	295.9	294.7	293.6	293.6
62.5°	270.3	270.3	268.0	268.0	265.8
65°	244.2	244.2	241.4	242.5	240.2
67.5°	218.1	217.5	215.8	215.2	215.8
70°	189.7	190.2	189.1	189.1	189.7
72.5°	164.1	163.6	163.0	163.0	164.1
75°	138.6	138.0	136.9	136.9	138.0
77.5°	115.3	112.4	111.9	113.0	111.3
80°	92.0	88.0	87.5	86.9	86.9
82.5°	64.7	63.0	63.6	63.0	64.2
85°	40.9	40.3	39.8	39.8	40.3
87.5°	19.3	18.2	18.2	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)