

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: P292862

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292862
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1921.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

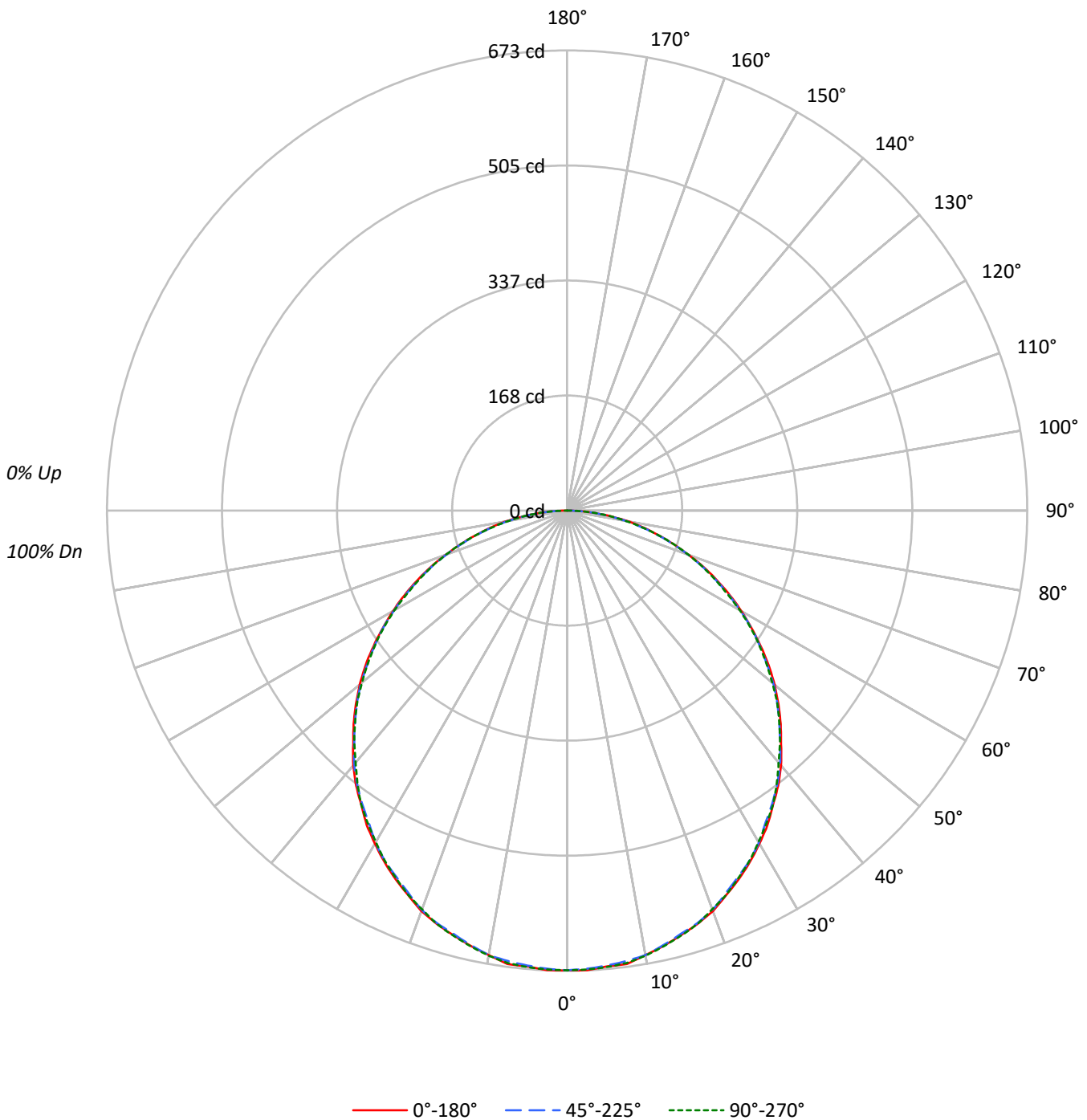
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1809	1809	1809
5°	1807	1804	1810
10°	1803	1803	1806
15°	1791	1787	1793
20°	1785	1780	1777
25°	1765	1755	1760
30°	1748	1742	1739
35°	1725	1718	1725
40°	1710	1702	1690
45°	1681	1670	1670
50°	1658	1648	1639
55°	1622	1612	1609
60°	1584	1576	1569
65°	1544	1526	1519
70°	1482	1478	1482
75°	1431	1413	1425
80°	1416	1347	1337
85°	1254	1220	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	3.3
10°-20°	181.5	9.4
20°-30°	273.3	14.2
30°-40°	327.9	17.1
40°-50°	339.3	17.7
50°-60°	307.5	16.0
60°-70°	238.3	12.4
70°-80°	144.7	7.5
80°-90°	44.8	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°	518.4	27.0
0°-40°	846.3	44.1
0°-60°	1493.1	77.7
0°-90°	1921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	669	669	668	670	670	64
15°	643	643	641	644	644	182
25°	594	593	591	593	593	274
35°	525	525	523	524	525	329
45°	442	441	439	439	439	341
55°	346	345	344	343	343	309
65°	242	242	240	241	239	240
75°	138	137	136	136	137	146
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°	672.4	672.4	672.4	672.4	672.4
2.5°	672.9	670.1	670.7	671.8	671.8
5°	669.0	669.0	667.9	669.5	670.1
7.5°	669.0	666.2	664.5	666.2	667.3
10°	660.0	658.8	660.0	659.4	661.1
12.5°	652.1	650.9	650.9	652.6	652.6
15°	643.0	643.0	641.3	644.2	643.6
17.5°	634.0	634.0	632.9	632.9	634.0
20°	623.3	620.5	621.6	621.0	620.5
22.5°	608.6	606.9	605.8	607.5	608.1
25°	594.5	593.4	591.1	593.4	592.8
27.5°	579.3	578.2	577.6	576.5	577.6
30°	562.4	561.2	560.7	559.6	559.6
32.5°	545.5	543.2	540.4	543.2	542.6
35°	525.1	525.1	522.9	523.5	525.1
37.5°	507.1	506.0	504.8	503.1	503.7
40°	486.8	485.1	484.5	483.4	481.1
42.5°	463.1	463.1	460.8	461.4	460.8
45°	441.7	441.1	438.8	438.8	438.8
47.5°	419.1	418.5	416.8	415.7	416.8
50°	396.0	393.7	393.7	392.0	391.5
52.5°	371.7	370.0	367.8	368.3	367.2
55°	345.8	345.2	343.5	343.0	343.0
57.5°	319.8	320.4	319.3	317.0	317.6
60°	294.4	293.9	292.8	291.6	291.6
62.5°	268.5	268.5	266.2	266.2	264.0
65°	242.5	242.5	239.7	240.9	238.6
67.5°	216.6	216.0	214.3	213.8	214.3
70°	188.4	189.0	187.8	187.8	188.4
72.5°	163.0	162.5	161.9	161.9	163.0
75°	137.6	137.1	135.9	135.9	137.1
77.5°	114.5	111.7	111.1	112.2	110.6
80°	91.4	87.4	86.9	86.3	86.3
82.5°	64.3	62.6	63.2	62.6	63.7
85°	40.6	40.0	39.5	39.5	40.0
87.5°	19.2	18.1	18.1	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)