

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: P292861

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292861
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1913.0 lumens
Efficiency: N/A
Efficacy: 102.9 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

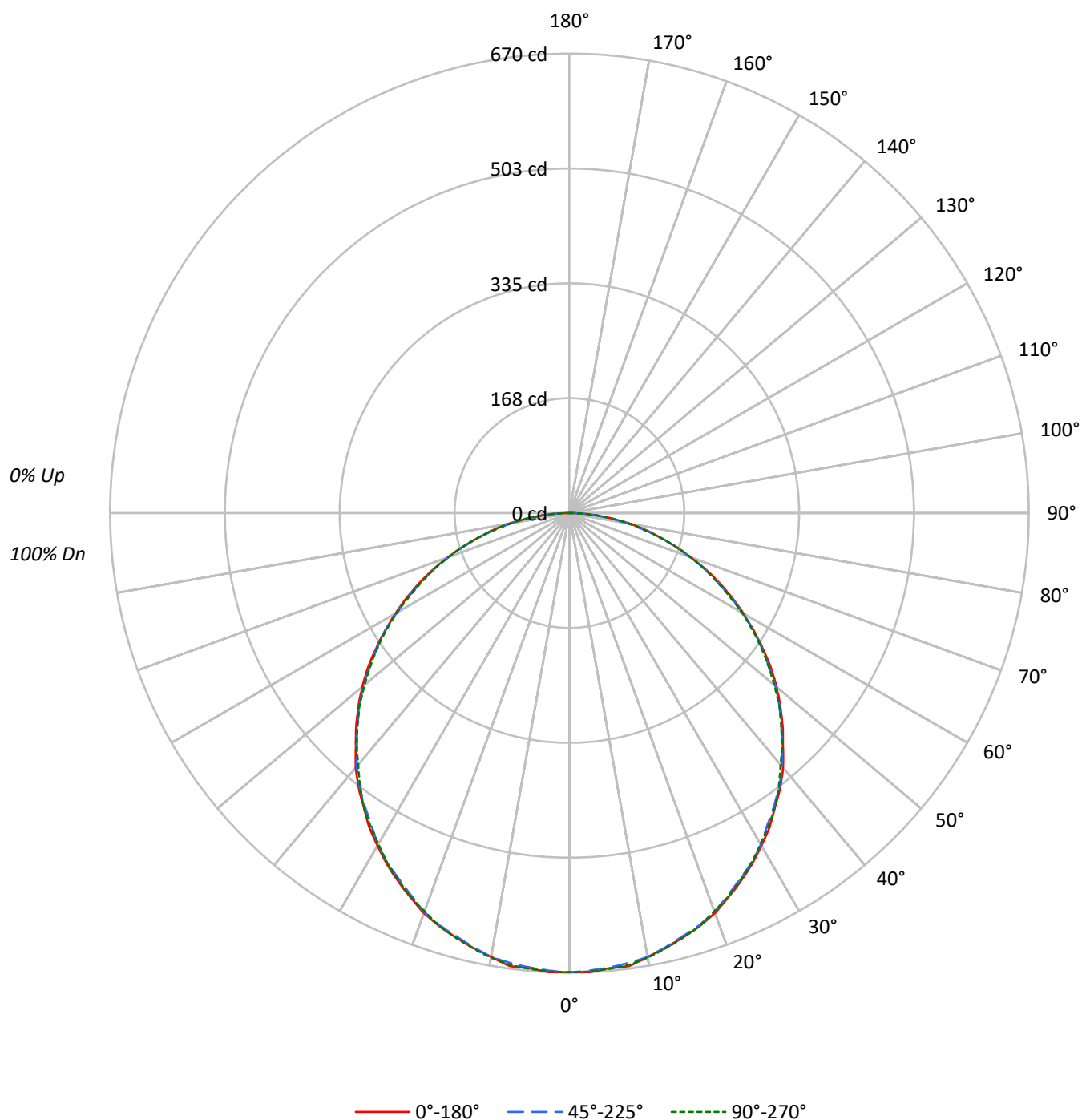
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		85	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1802	1802	1802
5°	1800	1797	1803
10°	1796	1796	1799
15°	1784	1779	1785
20°	1777	1773	1769
25°	1758	1748	1753
30°	1740	1735	1731
35°	1718	1711	1718
40°	1703	1695	1683
45°	1674	1663	1663
50°	1651	1641	1632
55°	1615	1605	1602
60°	1578	1569	1563
65°	1538	1520	1513
70°	1476	1472	1476
75°	1425	1408	1419
80°	1410	1340	1331
85°	1247	1213	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	3.3
10°-20°	180.7	9.4
20°-30°	272.1	14.2
30°-40°	326.6	17.1
40°-50°	337.9	17.7
50°-60°	306.2	16.0
60°-70°	237.4	12.4
70°-80°	144.1	7.5
80°-90°	44.6	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°	516.2	27.0
0°-40°	842.8	44.1
0°-60°	1486.9	77.7
0°-90°	1913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	666	666	665	667	667	63
15°	640	640	639	642	641	181
25°	592	591	589	591	590	273
35°	523	523	521	521	523	328
45°	440	439	437	437	437	339
55°	344	344	342	342	342	308
65°	242	242	239	240	238	239
75°	137	136	135	135	136	146
85°	40	40	39	39	40	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	669.6	669.6	669.6	669.6	669.6
2.5°	670.1	667.3	667.9	669.0	669.0
5°	666.2	666.2	665.1	666.8	667.3
7.5°	666.2	663.4	661.7	663.4	664.5
10°	657.2	656.1	657.2	656.6	658.3
12.5°	649.3	648.2	648.2	649.9	649.9
15°	640.4	640.4	638.7	641.5	640.9
17.5°	631.4	631.4	630.2	630.2	631.4
20°	620.7	617.9	619.0	618.5	617.9
22.5°	606.1	604.4	603.3	605.0	605.5
25°	592.1	590.9	588.7	590.9	590.4
27.5°	576.9	575.8	575.2	574.1	575.2
30°	560.0	558.9	558.3	557.2	557.2
32.5°	543.2	540.9	538.1	540.9	540.4
35°	523.0	523.0	520.7	521.3	523.0
37.5°	505.0	503.9	502.7	501.1	501.6
40°	484.8	483.1	482.5	481.4	479.1
42.5°	461.2	461.2	458.9	459.5	458.9
45°	439.8	439.3	437.0	437.0	437.0
47.5°	417.4	416.8	415.1	414.0	415.1
50°	394.3	392.1	392.1	390.4	389.8
52.5°	370.2	368.5	366.2	366.8	365.7
55°	344.3	343.8	342.1	341.5	341.5
57.5°	318.5	319.1	317.9	315.7	316.2
60°	293.2	292.7	291.5	290.4	290.4
62.5°	267.4	267.4	265.1	265.1	262.9
65°	241.5	241.5	238.7	239.9	237.6
67.5°	215.7	215.1	213.5	212.9	213.5
70°	187.6	188.2	187.1	187.1	187.6
72.5°	162.3	161.8	161.2	161.2	162.3
75°	137.1	136.5	135.4	135.4	136.5
77.5°	114.0	111.2	110.7	111.8	110.1
80°	91.0	87.1	86.5	85.9	85.9
82.5°	64.0	62.4	62.9	62.4	63.5
85°	40.4	39.9	39.3	39.3	39.9
87.5°	19.1	18.0	18.0	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)