

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: P292859

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292859
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1846.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

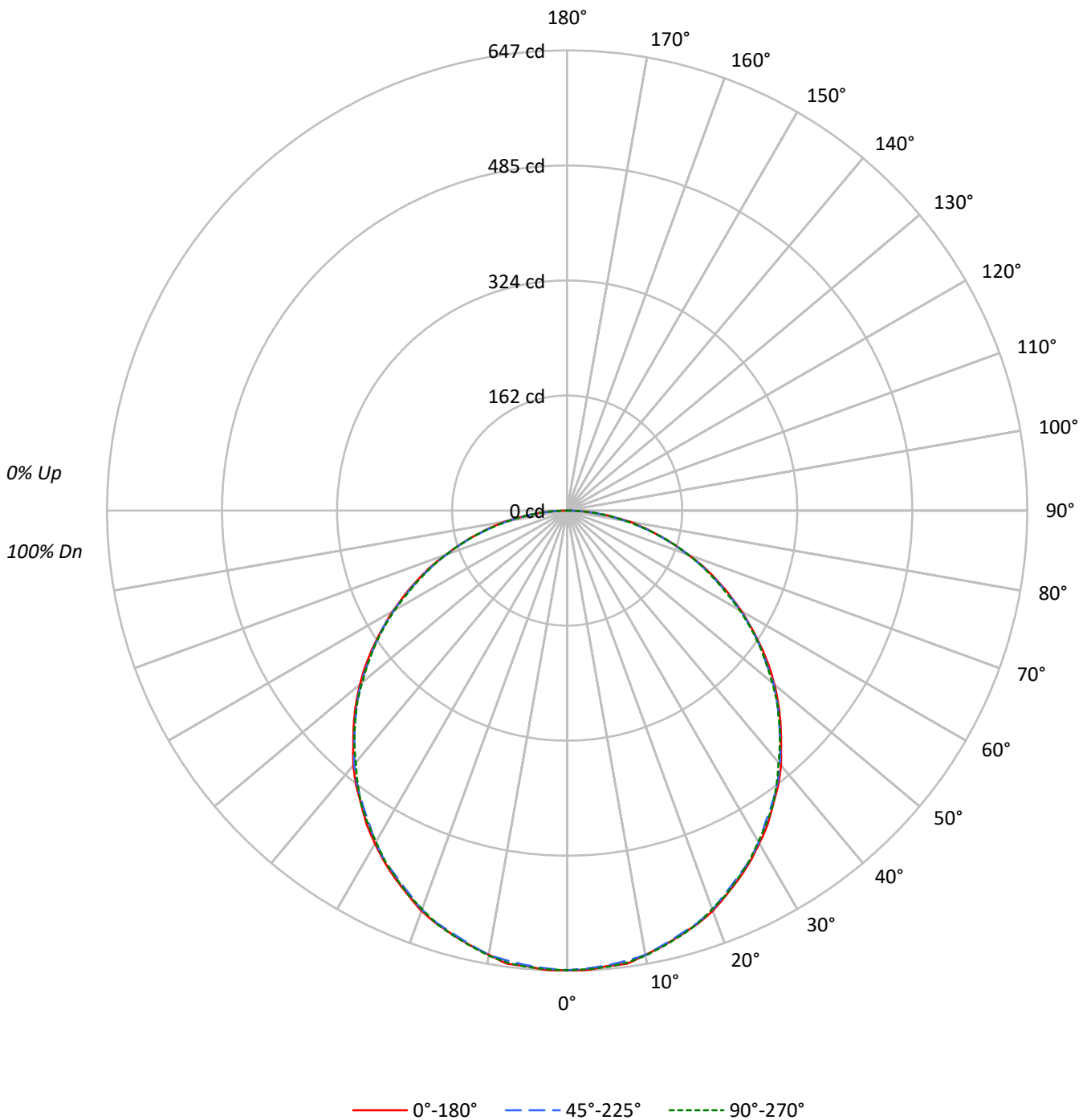
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1739	1739	1739
5°	1737	1734	1739
10°	1733	1733	1736
15°	1721	1717	1723
20°	1715	1710	1707
25°	1696	1687	1692
30°	1679	1674	1671
35°	1658	1651	1658
40°	1643	1636	1624
45°	1615	1605	1605
50°	1593	1584	1575
55°	1559	1549	1546
60°	1523	1514	1508
65°	1484	1467	1460
70°	1424	1420	1424
75°	1376	1358	1369
80°	1361	1294	1285
85°	1204	1170	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	3.3
10°-20°	174.4	9.4
20°-30°	262.6	14.2
30°-40°	315.1	17.1
40°-50°	326.1	17.7
50°-60°	295.5	16.0
60°-70°	229.0	12.4
70°-80°	139.0	7.5
80°-90°	43.0	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°	498.1	27.0
0°-40°	813.3	44.1
0°-60°	1434.9	77.7
0°-90°	1846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	646	646	646	646	646	
5°	643	643	642	643	644	61
15°	618	618	616	619	618	175
25°	571	570	568	570	570	263
35°	505	505	502	503	505	316
45°	424	424	422	422	422	328
55°	332	332	330	330	330	297
65°	233	233	230	232	229	230
75°	132	132	131	131	132	141
85°	39	38	38	38	38	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.1	646.1	646.1	646.1	646.1
2.5°	646.7	643.9	644.5	645.6	645.6
5°	642.9	642.9	641.8	643.4	643.9
7.5°	642.9	640.2	638.5	640.2	641.2
10°	634.2	633.1	634.2	633.7	635.3
12.5°	626.6	625.5	625.5	627.1	627.1
15°	617.9	617.9	616.3	619.0	618.5
17.5°	609.3	609.3	608.2	608.2	609.3
20°	599.0	596.2	597.3	596.8	596.2
22.5°	584.9	583.2	582.2	583.8	584.3
25°	571.3	570.2	568.1	570.2	569.7
27.5°	556.7	555.6	555.1	554.0	555.1
30°	540.4	539.3	538.8	537.7	537.7
32.5°	524.2	522.0	519.3	522.0	521.4
35°	504.6	504.6	502.5	503.0	504.6
37.5°	487.3	486.2	485.1	483.5	484.0
40°	467.8	466.2	465.6	464.5	462.4
42.5°	445.0	445.0	442.9	443.4	442.9
45°	424.4	423.9	421.7	421.7	421.7
47.5°	402.7	402.2	400.6	399.5	400.6
50°	380.5	378.3	378.3	376.7	376.2
52.5°	357.2	355.6	353.4	354.0	352.9
55°	332.3	331.7	330.1	329.6	329.6
57.5°	307.3	307.9	306.8	304.6	305.2
60°	282.9	282.4	281.3	280.2	280.2
62.5°	258.0	258.0	255.8	255.8	253.7
65°	233.1	233.1	230.4	231.5	229.3
67.5°	208.1	207.6	206.0	205.4	206.0
70°	181.0	181.6	180.5	180.5	181.0
72.5°	156.7	156.1	155.6	155.6	156.7
75°	132.3	131.7	130.6	130.6	131.7
77.5°	110.0	107.3	106.8	107.9	106.2
80°	87.8	84.0	83.5	82.9	82.9
82.5°	61.8	60.2	60.7	60.2	61.3
85°	39.0	38.5	37.9	37.9	38.5
87.5°	18.4	17.3	17.3	16.8	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)