

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: P292864

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292864
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-LD5-28-FGW080-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1910.0 lumens
Efficiency: N/A
Efficacy: 87.0 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

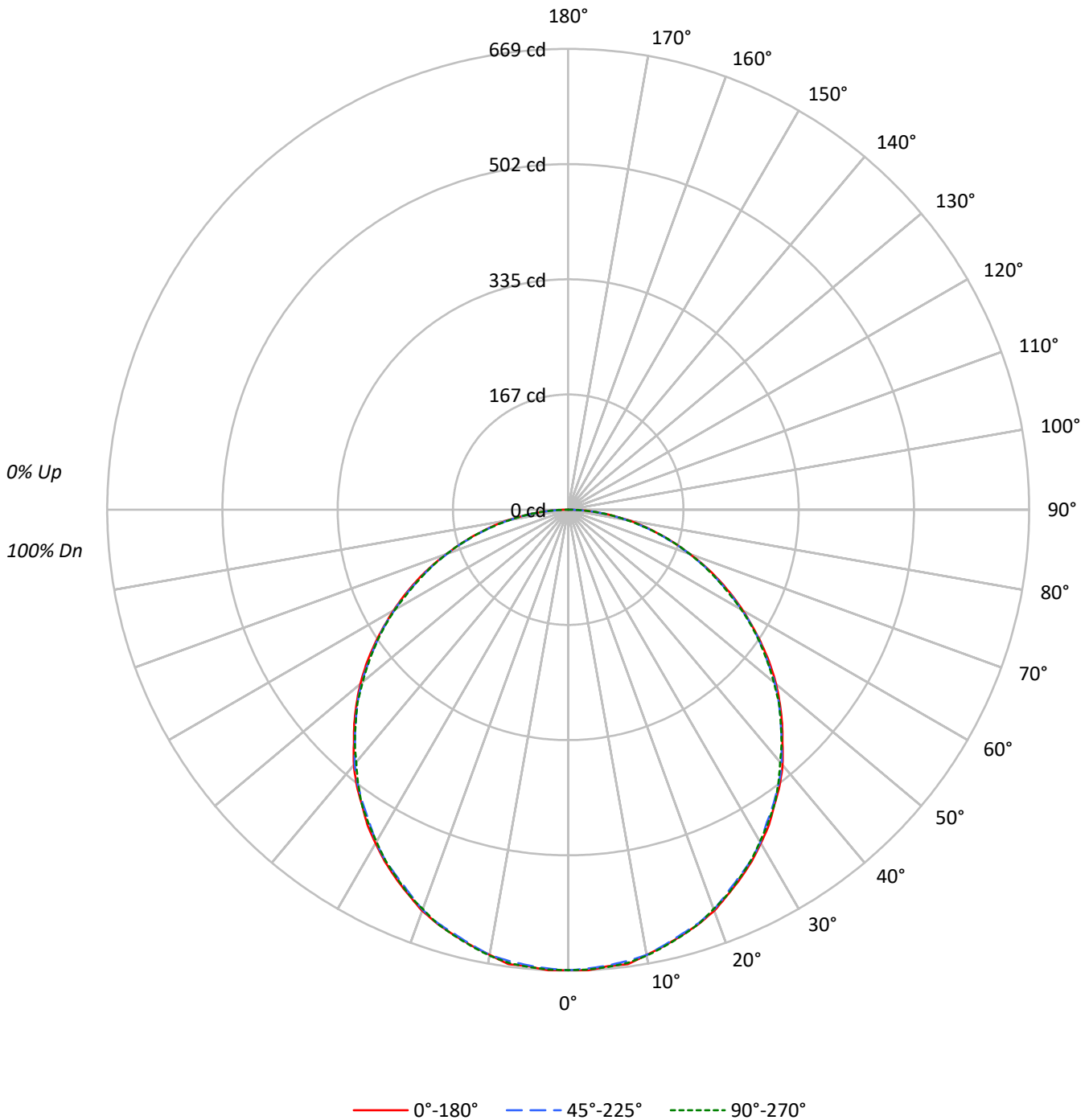
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1799	1799	1799
5°	1797	1794	1800
10°	1793	1793	1796
15°	1781	1777	1783
20°	1775	1770	1767
25°	1755	1745	1750
30°	1738	1732	1729
35°	1715	1708	1715
40°	1700	1692	1681
45°	1671	1660	1660
50°	1648	1639	1629
55°	1613	1602	1600
60°	1576	1567	1561
65°	1536	1518	1510
70°	1474	1470	1474
75°	1422	1406	1417
80°	1409	1339	1330
85°	1247	1213	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	3.3
10°-20°	180.4	9.4
20°-30°	271.7	14.2
30°-40°	326.1	17.1
40°-50°	337.4	17.7
50°-60°	305.7	16.0
60°-70°	237.0	12.4
70°-80°	143.9	7.5
80°-90°	44.5	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°	515.4	27.0
0°-40°	841.5	44.1
0°-60°	1484.6	77.7
0°-90°	1910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	665	665	664	666	666	63
15°	639	639	638	640	640	181
25°	591	590	588	590	589	272
35°	522	522	520	520	522	327
45°	439	439	436	436	436	339
55°	344	343	342	341	341	307
65°	241	241	238	240	237	238
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°	668.5	668.5	668.5	668.5	668.5
2.5°	669.1	666.3	666.8	668.0	668.0
5°	665.2	665.2	664.0	665.7	666.3
7.5°	665.2	662.3	660.7	662.3	663.5
10°	656.2	655.1	656.2	655.6	657.3
12.5°	648.3	647.2	647.2	648.9	648.9
15°	639.4	639.4	637.7	640.5	639.9
17.5°	630.4	630.4	629.3	629.3	630.4
20°	619.7	616.9	618.0	617.5	616.9
22.5°	605.1	603.5	602.3	604.0	604.6
25°	591.1	590.0	587.8	590.0	589.4
27.5°	576.0	574.9	574.3	573.2	574.3
30°	559.2	558.0	557.5	556.4	556.4
32.5°	542.3	540.1	537.3	540.1	539.5
35°	522.1	522.1	519.9	520.5	522.1
37.5°	504.2	503.1	501.9	500.3	500.8
40°	484.0	482.3	481.8	480.6	478.4
42.5°	460.4	460.4	458.2	458.8	458.2
45°	439.1	438.6	436.3	436.3	436.3
47.5°	416.7	416.1	414.5	413.3	414.5
50°	393.7	391.5	391.5	389.8	389.2
52.5°	369.6	367.9	365.7	366.2	365.1
55°	343.8	343.2	341.5	341.0	341.0
57.5°	318.0	318.6	317.4	315.2	315.8
60°	292.8	292.2	291.1	290.0	290.0
62.5°	267.0	267.0	264.7	264.7	262.5
65°	241.2	241.2	238.4	239.5	237.2
67.5°	215.4	214.8	213.1	212.6	213.1
70°	187.3	187.9	186.8	186.8	187.3
72.5°	162.1	161.5	161.0	161.0	162.1
75°	136.8	136.3	135.2	135.2	136.3
77.5°	113.8	111.0	110.5	111.6	109.9
80°	90.9	86.9	86.4	85.8	85.8
82.5°	63.9	62.3	62.8	62.3	63.4
85°	40.4	39.8	39.3	39.3	39.8
87.5°	19.1	17.9	17.9	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)