

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: P292759

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292759
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-L82765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1990.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

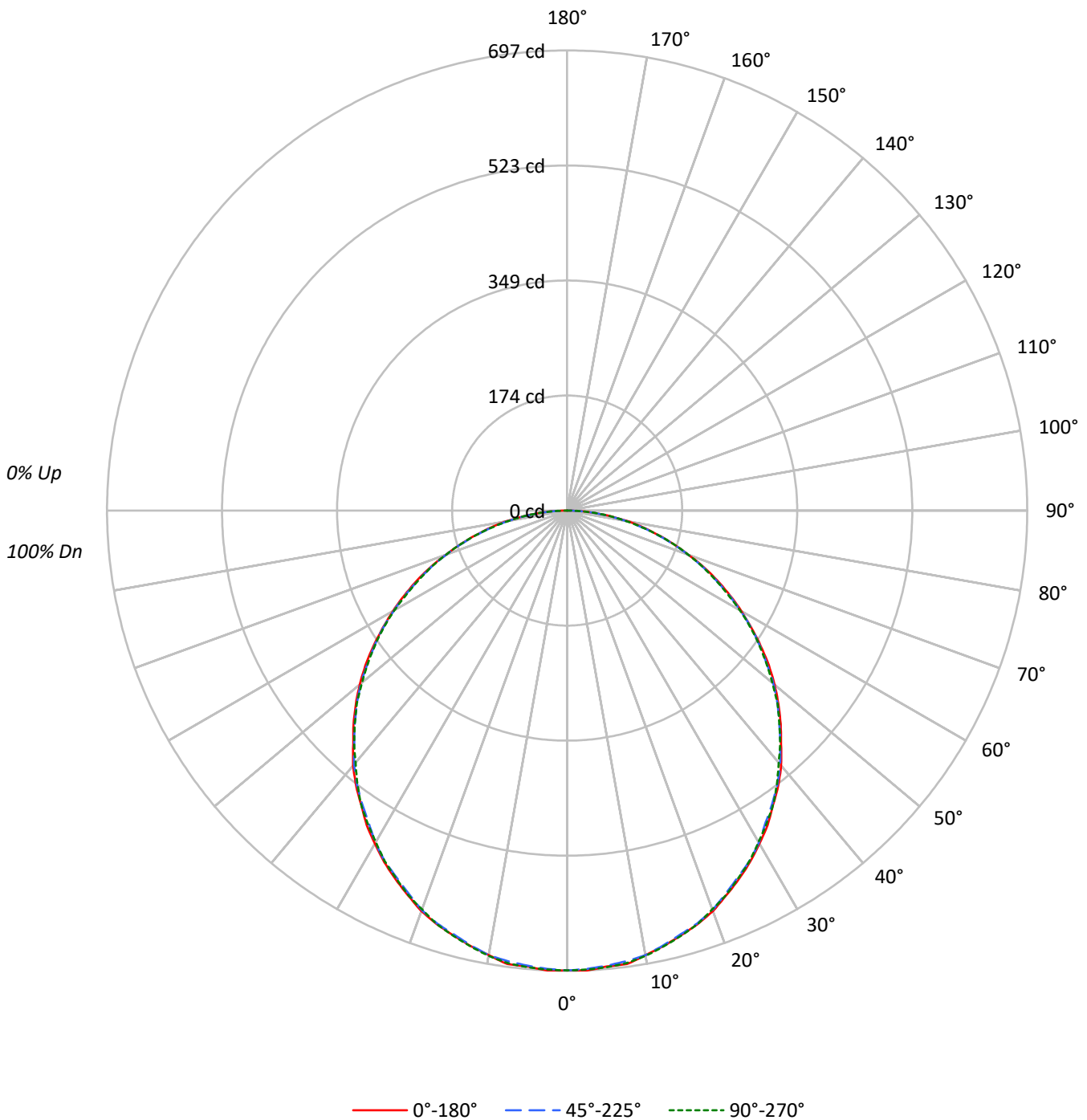
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1874	1874	1874
5°	1872	1869	1875
10°	1868	1868	1871
15°	1856	1851	1857
20°	1849	1844	1841
25°	1829	1818	1823
30°	1810	1805	1801
35°	1787	1780	1787
40°	1772	1763	1751
45°	1741	1730	1730
50°	1717	1708	1698
55°	1681	1670	1667
60°	1641	1632	1626
65°	1600	1581	1574
70°	1536	1531	1536
75°	1483	1464	1476
80°	1468	1395	1385
85°	1300	1263	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	3.3
10°-20°	188.0	9.4
20°-30°	283.1	14.2
30°-40°	339.7	17.1
40°-50°	351.5	17.7
50°-60°	318.5	16.0
60°-70°	246.9	12.4
70°-80°	149.9	7.5
80°-90°	46.4	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°	537.0	27.0
0°-40°	876.7	44.1
0°-60°	1546.8	77.7
0°-90°	1990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	693	693	692	694	694	66
15°	666	666	664	667	667	188
25°	616	615	612	615	614	284
35°	544	544	542	542	544	341
45°	458	457	455	455	455	353
55°	358	358	356	355	355	320
65°	251	251	248	250	247	248
75°	143	142	141	141	142	152
85°	42	42	41	41	42	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.5	696.5	696.5	696.5	696.5
2.5°	697.1	694.2	694.8	695.9	695.9
5°	693.0	693.0	691.8	693.6	694.2
7.5°	693.0	690.1	688.3	690.1	691.3
10°	683.7	682.5	683.7	683.1	684.8
12.5°	675.5	674.3	674.3	676.1	676.1
15°	666.1	666.1	664.4	667.3	666.7
17.5°	656.8	656.8	655.6	655.6	656.8
20°	645.7	642.8	643.9	643.3	642.8
22.5°	630.5	628.7	627.6	629.3	629.9
25°	615.9	614.7	612.4	614.7	614.1
27.5°	600.1	598.9	598.4	597.2	598.4
30°	582.6	581.4	580.8	579.7	579.7
32.5°	565.0	562.7	559.8	562.7	562.1
35°	544.0	544.0	541.7	542.3	544.0
37.5°	525.3	524.1	523.0	521.2	521.8
40°	504.3	502.5	501.9	500.8	498.4
42.5°	479.7	479.7	477.4	478.0	477.4
45°	457.5	456.9	454.6	454.6	454.6
47.5°	434.2	433.6	431.8	430.6	431.8
50°	410.2	407.9	407.9	406.1	405.5
52.5°	385.1	383.3	381.0	381.6	380.4
55°	358.2	357.6	355.9	355.3	355.3
57.5°	331.3	331.9	330.7	328.4	329.0
60°	305.0	304.4	303.3	302.1	302.1
62.5°	278.1	278.1	275.8	275.8	273.5
65°	251.3	251.3	248.3	249.5	247.2
67.5°	224.4	223.8	222.0	221.5	222.0
70°	195.2	195.7	194.6	194.6	195.2
72.5°	168.9	168.3	167.7	167.7	168.9
75°	142.6	142.0	140.8	140.8	142.0
77.5°	118.6	115.7	115.1	116.3	114.5
80°	94.7	90.6	90.0	89.4	89.4
82.5°	66.6	64.9	65.4	64.9	66.0
85°	42.1	41.5	40.9	40.9	41.5
87.5°	19.9	18.7	18.7	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)