

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: P292715

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292715
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-LD5-20-FGW080-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1823.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

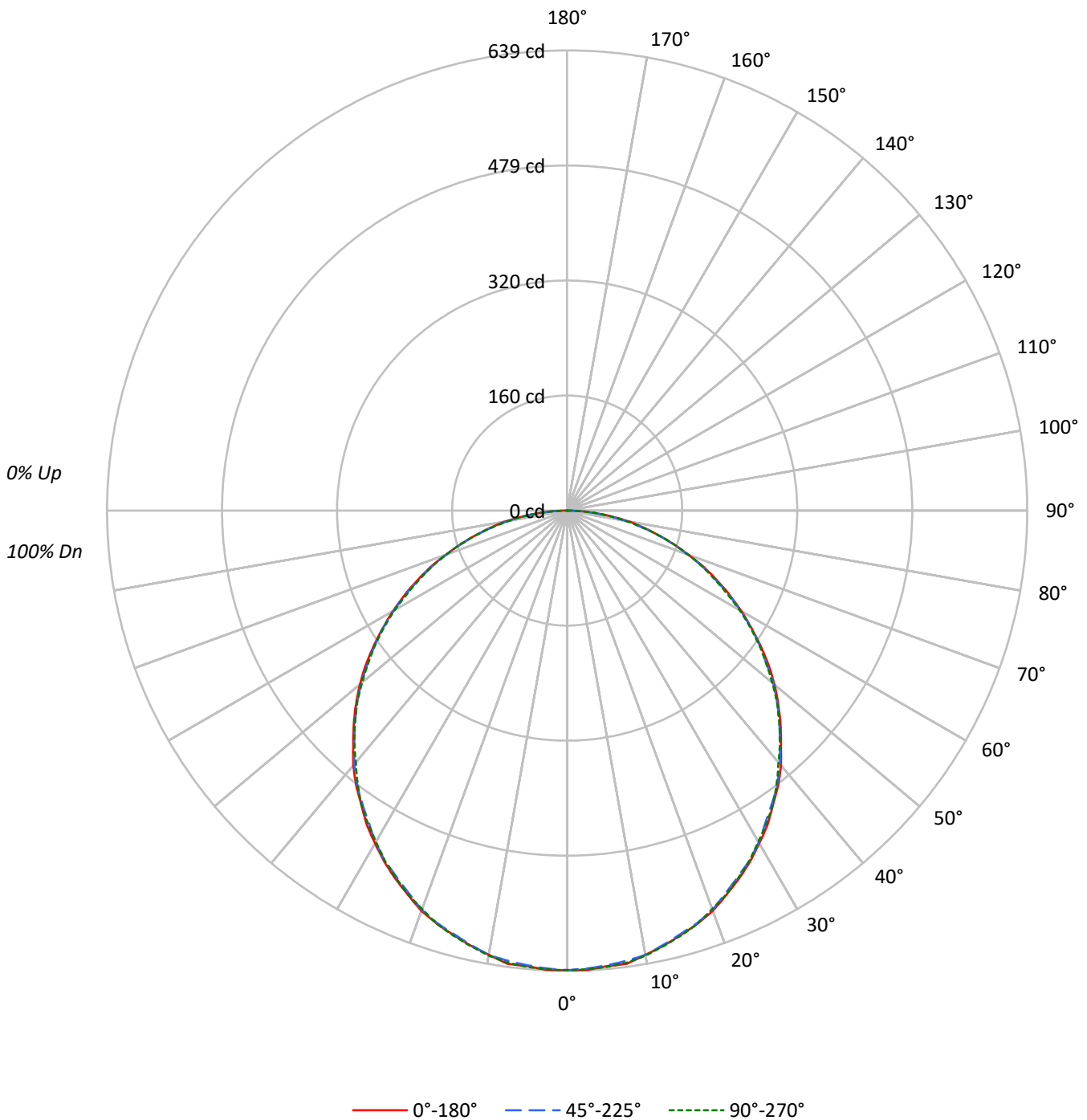
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1717	1717	1717
5°	1715	1712	1718
10°	1711	1711	1714
15°	1700	1696	1702
20°	1694	1689	1686
25°	1675	1666	1670
30°	1658	1653	1650
35°	1637	1630	1637
40°	1623	1615	1604
45°	1595	1585	1585
50°	1573	1564	1555
55°	1539	1529	1527
60°	1504	1495	1489
65°	1466	1449	1442
70°	1407	1403	1407
75°	1358	1341	1353
80°	1344	1277	1269
85°	1189	1158	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.3
10°-20°	172.2	9.4
20°-30°	259.3	14.2
30°-40°	311.2	17.1
40°-50°	322.0	17.7
50°-60°	291.8	16.0
60°-70°	226.2	12.4
70°-80°	137.3	7.5
80°-90°	42.5	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°	491.9	27.0
0°-40°	803.2	44.1
0°-60°	1417.0	77.7
0°-90°	1823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	635	635	634	635	636	60
15°	610	610	609	611	611	172
25°	564	563	561	563	563	260
35°	498	498	496	497	498	312
45°	419	419	416	416	416	323
55°	328	328	326	326	326	293
65°	230	230	228	229	226	228
75°	131	130	129	129	130	139
85°	38	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°	638.1	638.1	638.1	638.1	638.1
2.5°	638.6	635.9	636.5	637.5	637.5
5°	634.9	634.9	633.8	635.4	635.9
7.5°	634.9	632.2	630.6	632.2	633.2
10°	626.3	625.2	626.3	625.8	627.4
12.5°	618.8	617.7	617.7	619.3	619.3
15°	610.2	610.2	608.6	611.3	610.8
17.5°	601.7	601.7	600.6	600.6	601.7
20°	591.5	588.8	589.9	589.4	588.8
22.5°	577.6	576.0	574.9	576.5	577.0
25°	564.2	563.1	561.0	563.1	562.6
27.5°	549.7	548.7	548.1	547.1	548.1
30°	533.7	532.6	532.1	531.0	531.0
32.5°	517.6	515.5	512.8	515.5	515.0
35°	498.4	498.4	496.2	496.8	498.4
37.5°	481.2	480.2	479.1	477.5	478.0
40°	462.0	460.4	459.8	458.7	456.6
42.5°	439.5	439.5	437.3	437.9	437.3
45°	419.1	418.6	416.5	416.5	416.5
47.5°	397.7	397.2	395.6	394.5	395.6
50°	375.8	373.6	373.6	372.0	371.5
52.5°	352.8	351.2	349.0	349.5	348.5
55°	328.1	327.6	326.0	325.5	325.5
57.5°	303.5	304.0	303.0	300.8	301.4
60°	279.4	278.9	277.8	276.7	276.7
62.5°	254.8	254.8	252.7	252.7	250.5
65°	230.2	230.2	227.5	228.6	226.4
67.5°	205.6	205.0	203.4	202.9	203.4
70°	178.8	179.3	178.3	178.3	178.8
72.5°	154.7	154.2	153.6	153.6	154.7
75°	130.6	130.1	129.0	129.0	130.1
77.5°	108.7	106.0	105.5	106.5	104.9
80°	86.7	83.0	82.4	81.9	81.9
82.5°	61.0	59.4	60.0	59.4	60.5
85°	38.5	38.0	37.5	37.5	38.0
87.5°	18.2	17.1	17.1	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)