

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: P292750

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292750
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-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: 1696.0 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

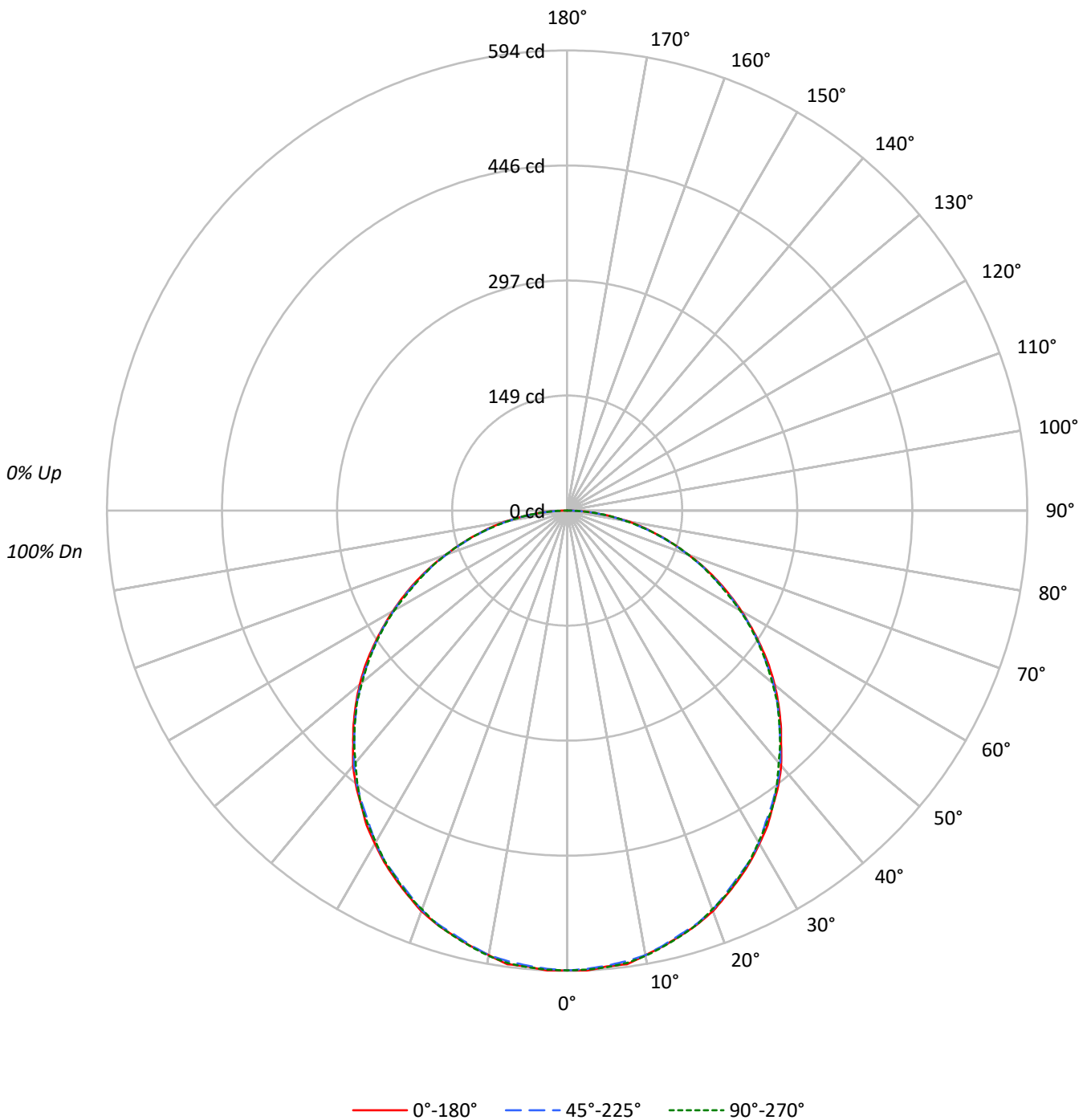
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1597	1597	1597
5°	1595	1593	1598
10°	1592	1592	1595
15°	1582	1577	1583
20°	1576	1572	1569
25°	1559	1550	1554
30°	1543	1538	1535
35°	1523	1516	1523
40°	1510	1503	1492
45°	1484	1474	1474
50°	1464	1455	1447
55°	1432	1423	1421
60°	1399	1391	1386
65°	1363	1347	1342
70°	1308	1304	1308
75°	1263	1248	1258
80°	1251	1189	1181
85°	1108	1078	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	3.3
10°-20°	160.2	9.4
20°-30°	241.3	14.2
30°-40°	289.5	17.1
40°-50°	299.6	17.7
50°-60°	271.5	16.0
60°-70°	210.4	12.4
70°-80°	127.7	7.5
80°-90°	39.5	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°	457.7	27.0
0°-40°	747.2	44.1
0°-60°	1318.3	77.7
0°-90°	1696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	594	594	594	594	594	
5°	591	591	590	591	592	56
15°	568	568	566	569	568	160
25°	525	524	522	524	523	242
35°	464	464	462	462	464	291
45°	390	389	387	387	387	301
55°	305	305	303	303	303	273
65°	214	214	212	213	211	212
75°	122	121	120	120	121	129
85°	36	35	35	35	35	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	593.6	593.6	593.6	593.6	593.6
2.5°	594.1	591.6	592.1	593.1	593.1
5°	590.6	590.6	589.6	591.1	591.6
7.5°	590.6	588.1	586.6	588.1	589.1
10°	582.7	581.7	582.7	582.2	583.7
12.5°	575.7	574.7	574.7	576.2	576.2
15°	567.7	567.7	566.2	568.7	568.2
17.5°	559.8	559.8	558.8	558.8	559.8
20°	550.3	547.8	548.8	548.3	547.8
22.5°	537.3	535.8	534.9	536.3	536.8
25°	524.9	523.9	521.9	523.9	523.4
27.5°	511.4	510.4	510.0	509.0	510.0
30°	496.5	495.5	495.0	494.0	494.0
32.5°	481.6	479.6	477.1	479.6	479.1
35°	463.6	463.6	461.6	462.1	463.6
37.5°	447.7	446.7	445.7	444.2	444.7
40°	429.8	428.3	427.8	426.8	424.8
42.5°	408.9	408.9	406.9	407.4	406.9
45°	389.9	389.4	387.4	387.4	387.4
47.5°	370.0	369.5	368.0	367.0	368.0
50°	349.6	347.6	347.6	346.1	345.6
52.5°	328.2	326.7	324.7	325.2	324.2
55°	305.3	304.8	303.3	302.8	302.8
57.5°	282.4	282.9	281.9	279.9	280.4
60°	260.0	259.5	258.5	257.5	257.5
62.5°	237.0	237.0	235.1	235.1	233.1
65°	214.1	214.1	211.6	212.6	210.7
67.5°	191.2	190.7	189.2	188.7	189.2
70°	166.3	166.8	165.8	165.8	166.3
72.5°	143.9	143.4	142.9	142.9	143.9
75°	121.5	121.0	120.0	120.0	121.0
77.5°	101.1	98.6	98.1	99.1	97.6
80°	80.7	77.2	76.7	76.2	76.2
82.5°	56.8	55.3	55.8	55.3	56.3
85°	35.9	35.4	34.9	34.9	35.4
87.5°	16.9	15.9	15.9	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)