

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: P292851

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292851
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-L92765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1605.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

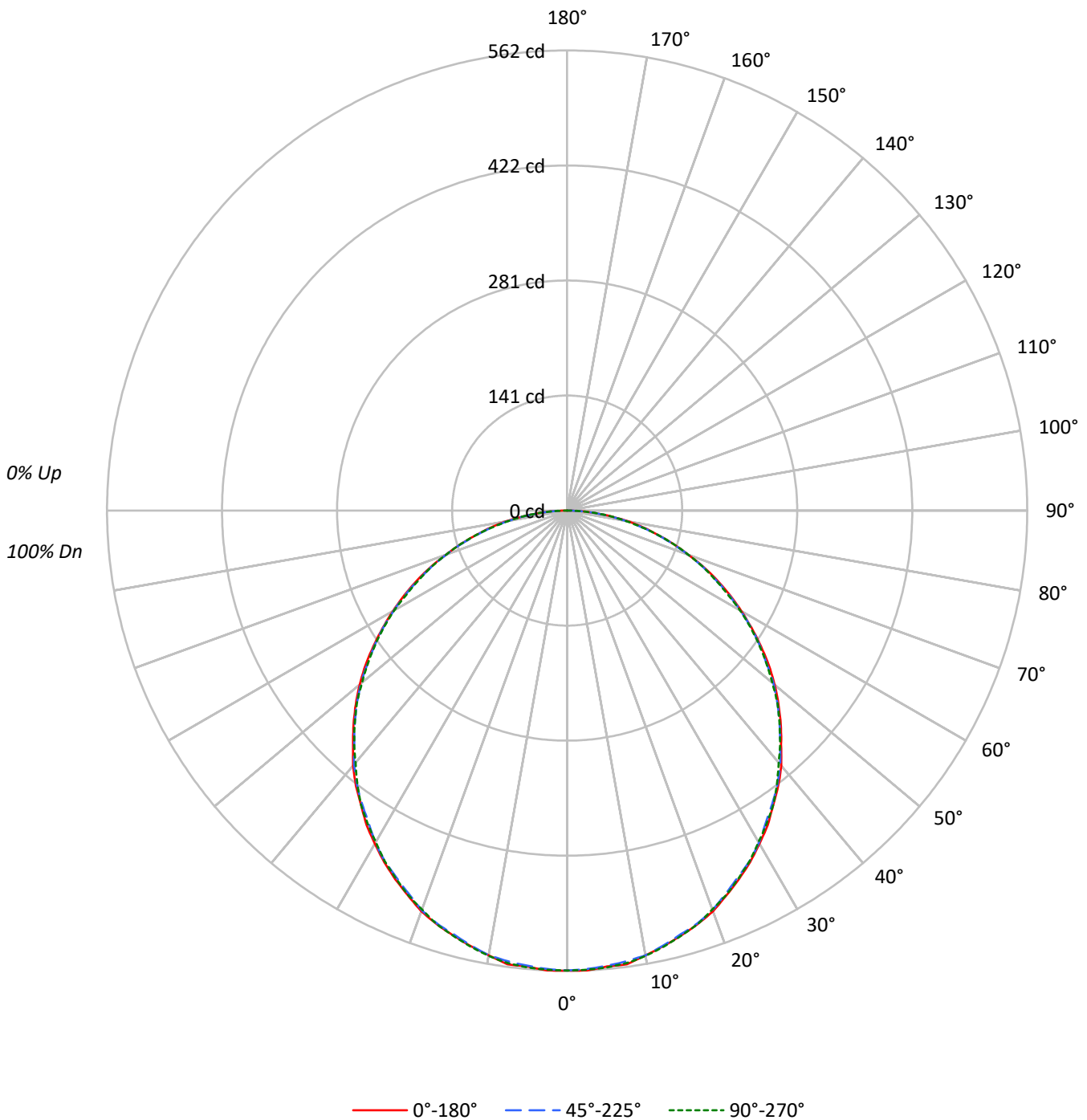
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1512	1512	1512
5°	1510	1507	1512
10°	1507	1507	1509
15°	1497	1493	1498
20°	1491	1487	1485
25°	1475	1466	1471
30°	1460	1456	1453
35°	1441	1435	1441
40°	1429	1422	1412
45°	1404	1396	1396
50°	1385	1377	1369
55°	1355	1346	1344
60°	1324	1316	1312
65°	1291	1275	1270
70°	1238	1234	1238
75°	1196	1181	1190
80°	1182	1125	1117
85°	1047	1019	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	3.3
10°-20°	151.6	9.4
20°-30°	228.3	14.2
30°-40°	274.0	17.1
40°-50°	283.5	17.7
50°-60°	256.9	16.0
60°-70°	199.1	12.4
70°-80°	120.9	7.5
80°-90°	37.4	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°	433.1	27.0
0°-40°	707.1	44.1
0°-60°	1247.5	77.7
0°-90°	1605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	559	559	558	559	560	53
15°	537	537	536	538	538	152
25°	497	496	494	496	495	229
35°	439	439	437	437	439	275
45°	369	368	367	367	367	285
55°	289	288	287	286	286	258
65°	203	203	200	201	199	200
75°	115	114	114	114	114	122
85°	34	34	33	33	34	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.8	561.8	561.8	561.8	561.8
2.5°	562.2	559.9	560.4	561.3	561.3
5°	558.9	558.9	558.0	559.4	559.9
7.5°	558.9	556.6	555.2	556.6	557.5
10°	551.4	550.5	551.4	550.9	552.3
12.5°	544.8	543.9	543.9	545.3	545.3
15°	537.3	537.3	535.8	538.2	537.7
17.5°	529.7	529.7	528.8	528.8	529.7
20°	520.8	518.4	519.3	518.9	518.4
22.5°	508.5	507.1	506.2	507.6	508.0
25°	496.7	495.8	493.9	495.8	495.3
27.5°	484.0	483.1	482.6	481.6	482.6
30°	469.9	468.9	468.5	467.5	467.5
32.5°	455.7	453.8	451.5	453.8	453.4
35°	438.8	438.8	436.9	437.3	438.8
37.5°	423.7	422.7	421.8	420.4	420.9
40°	406.7	405.3	404.8	403.9	402.0
42.5°	386.9	386.9	385.0	385.5	385.0
45°	369.0	368.5	366.7	366.7	366.7
47.5°	350.2	349.7	348.3	347.3	348.3
50°	330.8	329.0	329.0	327.5	327.1
52.5°	310.6	309.2	307.3	307.7	306.8
55°	288.9	288.4	287.0	286.5	286.5
57.5°	267.2	267.7	266.7	264.9	265.3
60°	246.0	245.5	244.6	243.7	243.7
62.5°	224.3	224.3	222.4	222.4	220.6
65°	202.7	202.7	200.3	201.2	199.4
67.5°	181.0	180.5	179.1	178.6	179.1
70°	157.4	157.9	156.9	156.9	157.4
72.5°	136.2	135.7	135.3	135.3	136.2
75°	115.0	114.5	113.6	113.6	114.5
77.5°	95.7	93.3	92.8	93.8	92.4
80°	76.3	73.0	72.6	72.1	72.1
82.5°	53.7	52.3	52.8	52.3	53.3
85°	33.9	33.5	33.0	33.0	33.5
87.5°	16.0	15.1	15.1	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)