

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: P292813

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292813
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-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1594.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

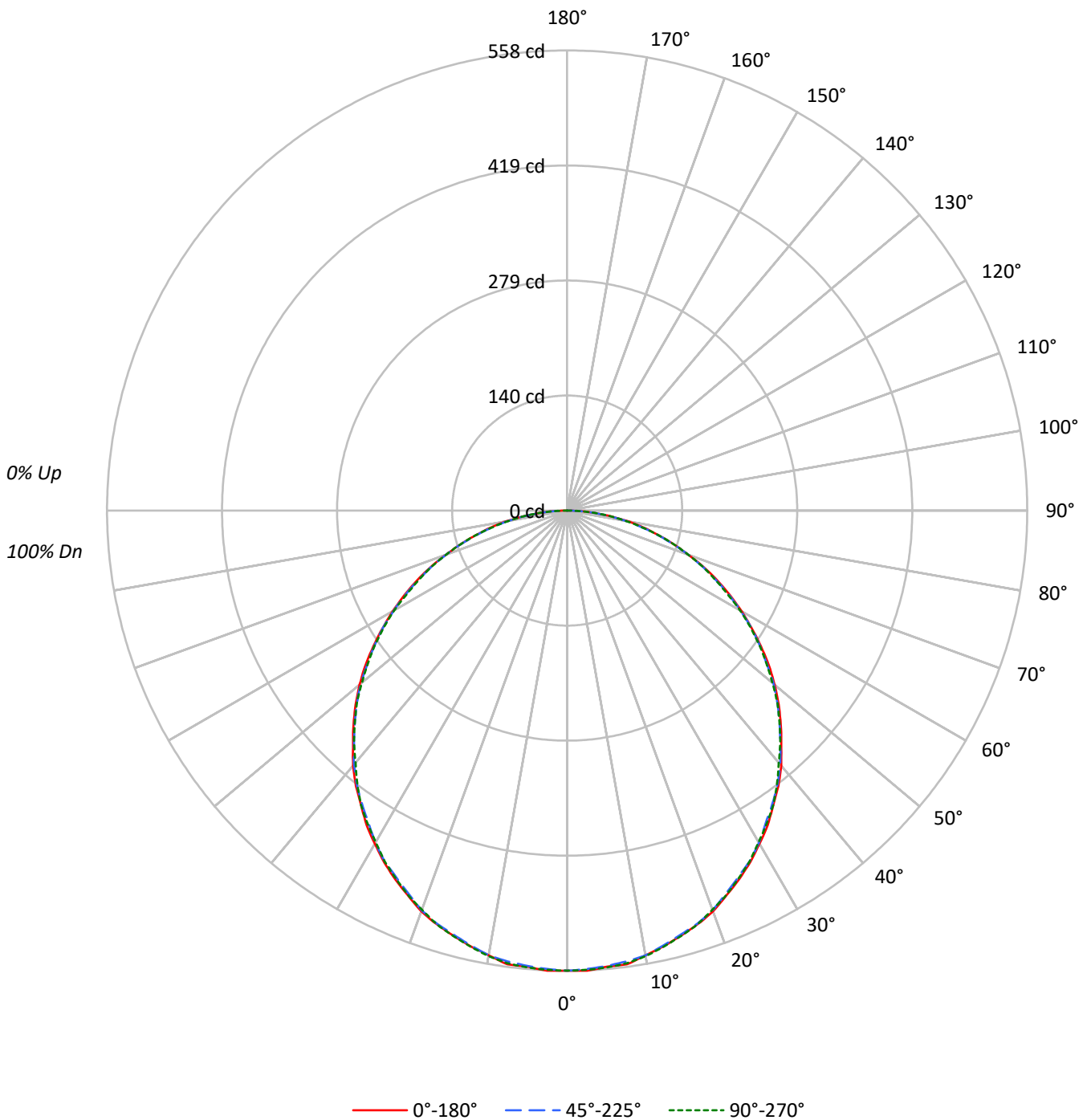
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292813

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P292813

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L93050-W2A1-U-4000K

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°	1501	1501	1501
5°	1499	1497	1502
10°	1496	1496	1499
15°	1487	1483	1488
20°	1481	1477	1475
25°	1465	1456	1461
30°	1450	1446	1443
35°	1432	1425	1432
40°	1419	1413	1402
45°	1395	1386	1386
50°	1376	1368	1360
55°	1346	1337	1335
60°	1315	1307	1302
65°	1282	1266	1261
70°	1230	1227	1230
75°	1187	1173	1182
80°	1175	1117	1110
85°	1041	1013	1025



TEST NUMBER: P292813

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	3.3
10°-20°	150.6	9.4
20°-30°	226.8	14.2
30°-40°	272.1	17.1
40°-50°	281.6	17.7
50°-60°	255.1	16.0
60°-70°	197.8	12.4
70°-80°	120.1	7.5
80°-90°	37.2	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°	430.1	27.0
0°-40°	702.3	44.1
0°-60°	1239.0	77.7
0°-90°	1594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	555	555	554	556	556	53
15°	534	534	532	534	534	151
25°	493	492	490	492	492	227
35°	436	436	434	434	436	273
45°	366	366	364	364	364	283
55°	287	286	285	285	285	257
65°	201	201	199	200	198	199
75°	114	114	113	113	114	121
85°	34	33	33	33	33	38
90°	0	0	0	0	0	



TEST NUMBER: P292813

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	557.9	557.9	557.9	557.9	557.9
2.5°	558.4	556.0	556.5	557.4	557.4
5°	555.1	555.1	554.2	555.6	556.0
7.5°	555.1	552.8	551.4	552.8	553.7
10°	547.6	546.7	547.6	547.1	548.6
12.5°	541.1	540.1	540.1	541.5	541.5
15°	533.6	533.6	532.2	534.5	534.0
17.5°	526.1	526.1	525.2	525.2	526.1
20°	517.2	514.9	515.8	515.3	514.9
22.5°	505.0	503.6	502.7	504.1	504.6
25°	493.3	492.4	490.5	492.4	491.9
27.5°	480.7	479.8	479.3	478.3	479.3
30°	466.6	465.7	465.2	464.3	464.3
32.5°	452.6	450.7	448.4	450.7	450.3
35°	435.8	435.8	433.9	434.3	435.8
37.5°	420.8	419.8	418.9	417.5	418.0
40°	403.9	402.5	402.1	401.1	399.2
42.5°	384.3	384.3	382.4	382.9	382.4
45°	366.5	366.0	364.1	364.1	364.1
47.5°	347.8	347.3	345.9	345.0	345.9
50°	328.6	326.7	326.7	325.3	324.8
52.5°	308.4	307.0	305.2	305.6	304.7
55°	286.9	286.4	285.0	284.6	284.6
57.5°	265.4	265.9	264.9	263.0	263.5
60°	244.3	243.9	242.9	242.0	242.0
62.5°	222.8	222.8	220.9	220.9	219.0
65°	201.3	201.3	198.9	199.9	198.0
67.5°	179.7	179.3	177.9	177.4	177.9
70°	156.3	156.8	155.9	155.9	156.3
72.5°	135.3	134.8	134.3	134.3	135.3
75°	114.2	113.7	112.8	112.8	113.7
77.5°	95.0	92.7	92.2	93.1	91.7
80°	75.8	72.5	72.1	71.6	71.6
82.5°	53.4	52.0	52.4	52.0	52.9
85°	33.7	33.2	32.8	32.8	33.2
87.5°	15.9	15.0	15.0	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)