

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: P292856

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292856
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-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1661.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

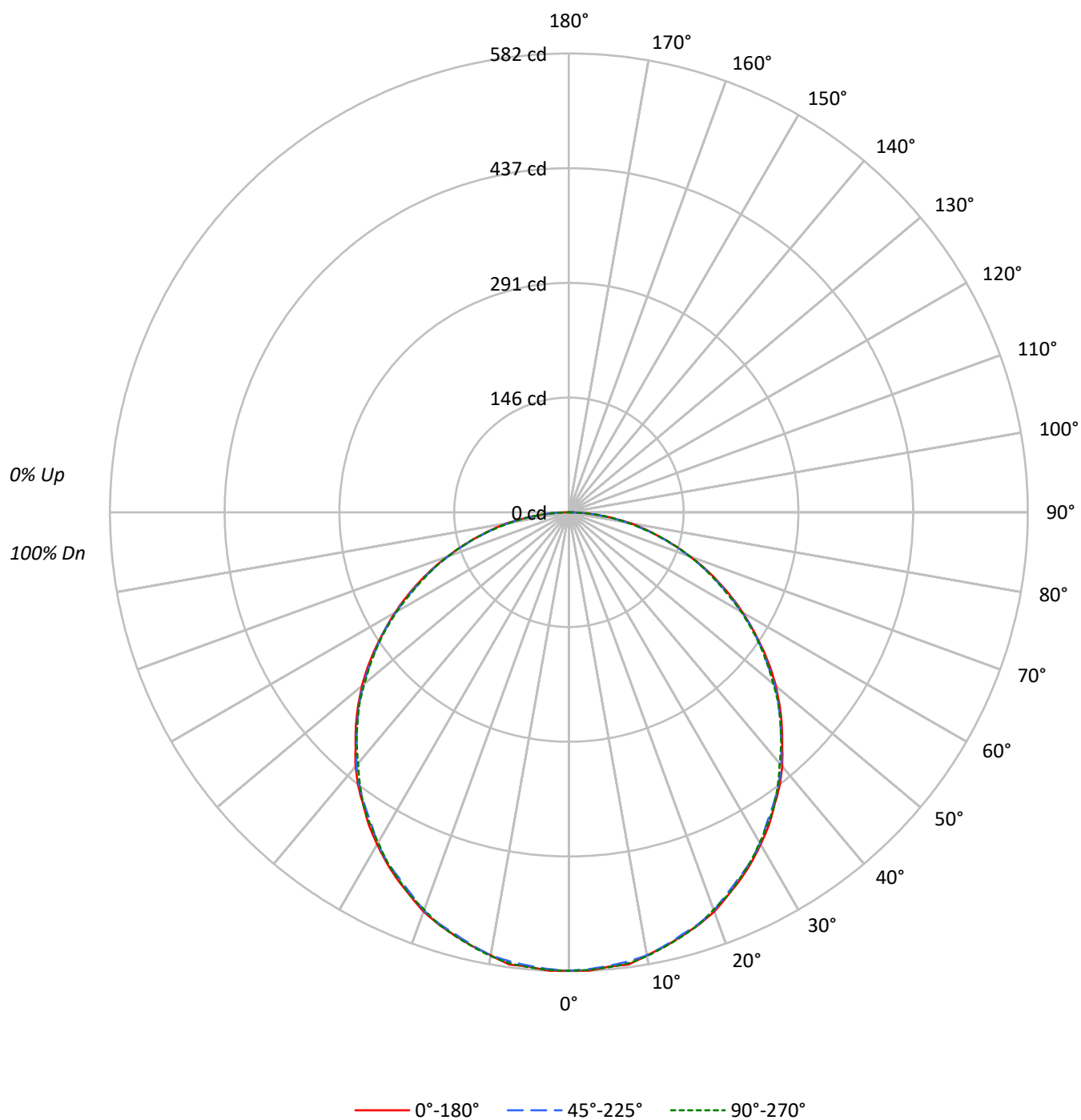
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292856

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P292856

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1565	1565	1565
5°	1562	1560	1565
10°	1559	1559	1562
15°	1549	1545	1550
20°	1543	1539	1536
25°	1526	1518	1522
30°	1511	1506	1503
35°	1492	1485	1492
40°	1479	1472	1461
45°	1453	1444	1444
50°	1433	1425	1417
55°	1403	1393	1391
60°	1370	1362	1357
65°	1335	1320	1314
70°	1282	1278	1282
75°	1237	1222	1232
80°	1224	1164	1156
85°	1084	1053	1068



TEST NUMBER: P292856

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	3.3
10°-20°	156.9	9.4
20°-30°	236.3	14.2
30°-40°	283.6	17.1
40°-50°	293.4	17.7
50°-60°	265.9	16.0
60°-70°	206.1	12.4
70°-80°	125.1	7.5
80°-90°	38.7	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°	448.2	27.0
0°-40°	731.8	44.1
0°-60°	1291.1	77.7
0°-90°	1661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	578	578	578	579	579	55
15°	556	556	554	557	556	157
25°	514	513	511	513	513	237
35°	454	454	452	453	454	285
45°	382	381	379	379	379	295
55°	299	298	297	296	296	267
65°	210	210	207	208	206	207
75°	119	118	118	118	118	127
85°	35	35	34	34	35	40
90°	0	0	0	0	0	



TEST NUMBER: P292856

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	581.4	581.4	581.4	581.4	581.4
2.5°	581.9	579.4	579.9	580.9	580.9
5°	578.4	578.4	577.5	578.9	579.4
7.5°	578.4	576.0	574.5	576.0	577.0
10°	570.6	569.7	570.6	570.1	571.6
12.5°	563.8	562.8	562.8	564.3	564.3
15°	556.0	556.0	554.5	557.0	556.5
17.5°	548.2	548.2	547.2	547.2	548.2
20°	538.9	536.5	537.5	537.0	536.5
22.5°	526.3	524.8	523.8	525.3	525.8
25°	514.1	513.1	511.1	513.1	512.6
27.5°	500.9	499.9	499.4	498.5	499.4
30°	486.3	485.3	484.8	483.8	483.8
32.5°	471.6	469.7	467.2	469.7	469.2
35°	454.1	454.1	452.1	452.6	454.1
37.5°	438.5	437.5	436.5	435.0	435.5
40°	420.9	419.4	419.0	418.0	416.0
42.5°	400.4	400.4	398.5	399.0	398.5
45°	381.9	381.4	379.4	379.4	379.4
47.5°	362.4	361.9	360.4	359.5	360.4
50°	342.4	340.4	340.4	339.0	338.5
52.5°	321.4	319.9	318.0	318.5	317.5
55°	299.0	298.5	297.0	296.5	296.5
57.5°	276.5	277.0	276.1	274.1	274.6
60°	254.6	254.1	253.1	252.2	252.2
62.5°	232.2	232.2	230.2	230.2	228.3
65°	209.7	209.7	207.3	208.3	206.3
67.5°	187.3	186.8	185.3	184.8	185.3
70°	162.9	163.4	162.4	162.4	162.9
72.5°	141.0	140.5	140.0	140.0	141.0
75°	119.0	118.5	117.5	117.5	118.5
77.5°	99.0	96.6	96.1	97.1	95.6
80°	79.0	75.6	75.1	74.6	74.6
82.5°	55.6	54.1	54.6	54.1	55.1
85°	35.1	34.6	34.1	34.1	34.6
87.5°	16.6	15.6	15.6	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)