

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: P292312

Luminaire Tested: **22GR-LD5-43-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-A-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3402.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

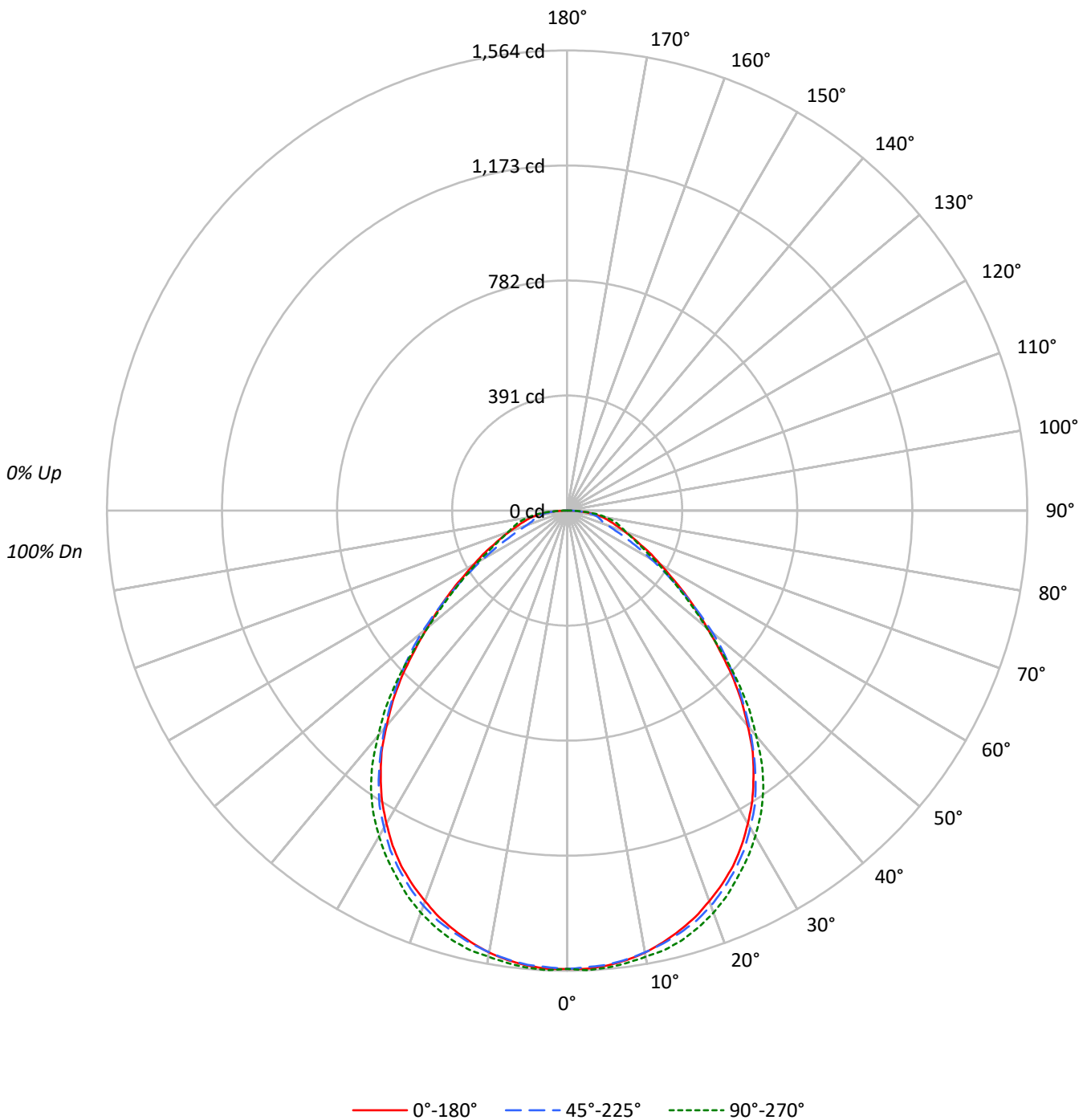
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292312

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P292312

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L92765-W2A1-U-2700K

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4193	4193	4193
5°	4194	4187	4213
10°	4168	4166	4207
15°	4115	4138	4210
20°	4044	4092	4165
25°	3958	4003	4076
30°	3815	3867	3973
35°	3628	3669	3818
40°	3354	3390	3510
45°	3013	3067	3115
50°	2605	2698	2578
55°	2273	2213	2184
60°	1968	1772	1892
65°	1759	1391	1699
70°	1632	1153	1676
75°	1629	1219	1860
80°	1804	1534	2098
85°	1883	1661	2371



TEST NUMBER: P292312

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	4.3
10°-20°	419.9	12.3
20°-30°	621.0	18.3
30°-40°	700.8	20.6
40°-50°	617.8	18.2
50°-60°	423.8	12.5
60°-70°	250.1	7.4
70°-80°	156.0	4.6
80°-90°	65.1	1.9
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°	1188.4	34.9
0°-40°	1889.2	55.5
0°-60°	2930.8	86.1
0°-90°	3402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1552	1549	1550	1556	1560	147
15°	1477	1479	1485	1503	1511	416
25°	1333	1338	1348	1366	1373	612
35°	1104	1114	1117	1144	1162	688
45°	792	796	806	811	819	608
55°	484	473	472	456	466	435
65°	276	243	218	252	267	278
75°	157	141	117	164	179	168
85°	61	57	54	70	77	66
90°	0	0	0	0	0	



TEST NUMBER: P292312

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.0	1558.0	1558.0	1558.0	1558.0
2.5°	1558.8	1554.8	1553.2	1559.6	1563.5
5°	1552.5	1549.3	1550.1	1555.6	1559.6
7.5°	1541.4	1539.0	1539.0	1546.9	1550.9
10°	1525.5	1524.7	1524.7	1534.2	1539.8
12.5°	1503.4	1504.2	1507.3	1520.0	1529.5
15°	1477.2	1478.8	1485.2	1503.4	1511.3
17.5°	1448.7	1448.7	1461.4	1475.7	1485.2
20°	1412.3	1414.7	1429.0	1444.8	1454.3
22.5°	1375.1	1379.1	1391.0	1409.2	1417.9
25°	1333.2	1337.9	1348.2	1365.6	1372.7
27.5°	1284.1	1290.4	1301.5	1314.2	1329.2
30°	1227.9	1237.4	1244.5	1261.9	1278.5
32.5°	1170.9	1179.6	1187.5	1205.7	1224.7
35°	1104.4	1113.9	1117.0	1144.0	1162.2
37.5°	1036.3	1040.2	1041.8	1068.7	1088.5
40°	954.7	962.7	965.0	986.4	999.1
42.5°	876.4	879.5	884.3	900.1	915.2
45°	791.7	795.6	805.9	810.7	818.6
47.5°	703.0	714.9	726.7	711.7	712.5
50°	622.2	631.7	644.4	615.9	615.9
52.5°	550.2	555.0	555.7	532.0	536.7
55°	484.5	472.6	471.8	456.0	465.5
57.5°	418.8	403.0	397.4	392.7	403.7
60°	365.7	337.2	329.3	336.5	351.5
62.5°	322.2	285.8	270.7	289.0	302.4
65°	276.3	243.0	218.5	252.5	266.8
67.5°	240.7	209.0	177.3	225.6	235.9
70°	207.4	182.9	146.5	205.0	213.0
72.5°	180.5	161.5	126.7	185.2	194.7
75°	156.7	140.9	117.2	163.9	178.9
77.5°	137.7	120.3	109.2	141.7	159.9
80°	116.4	99.0	99.0	118.7	135.4
82.5°	91.8	77.6	80.0	96.6	108.5
85°	61.0	57.0	53.8	70.5	76.8
87.5°	30.9	31.7	28.5	36.4	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)