

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: P292301

Luminaire Tested: **22GR-LD5-36-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292301
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-LD5-36-A-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3401.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

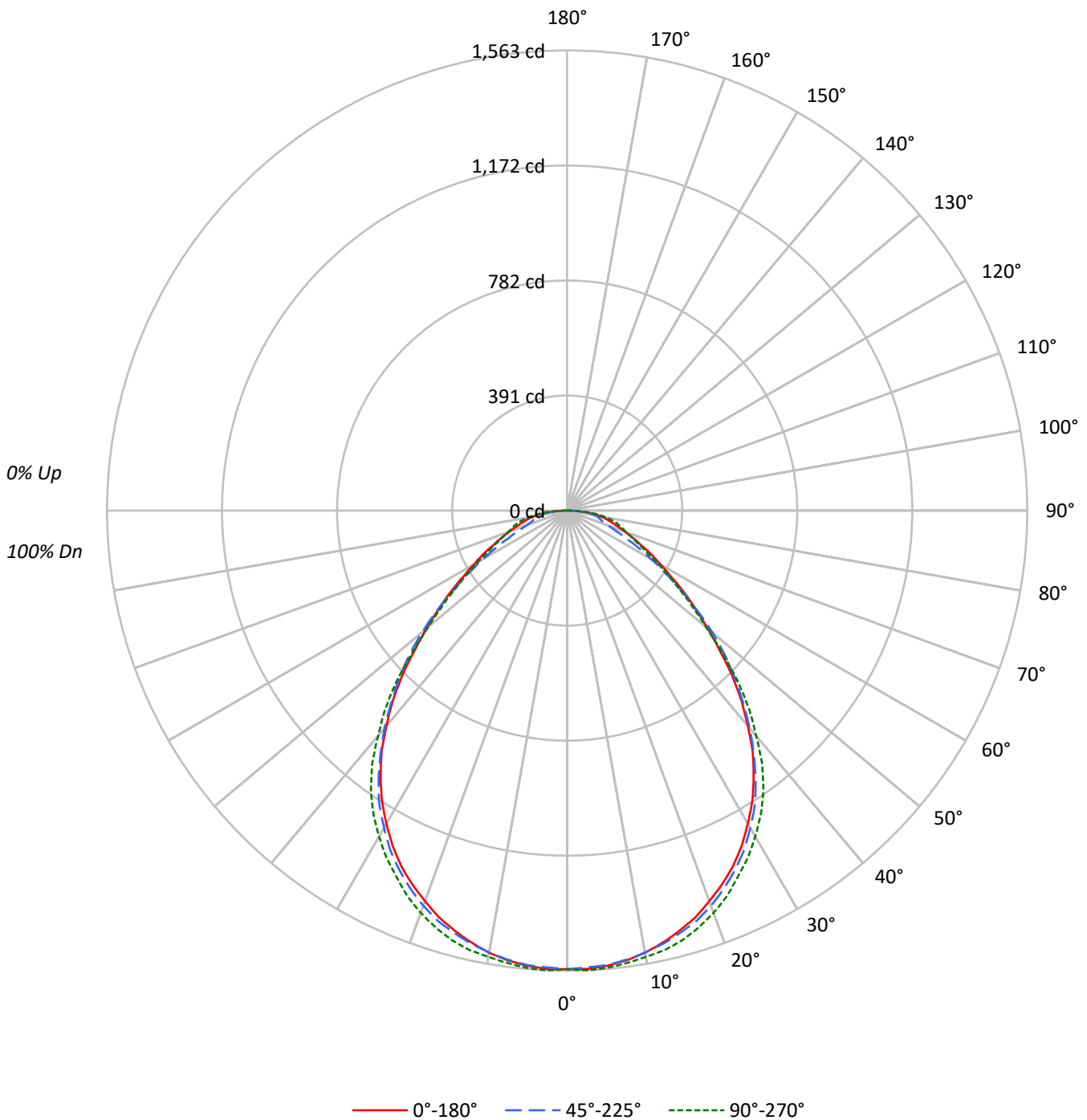
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292301

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P292301

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L92765-W2A1-U-5700K

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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4191	4191	4191
5°	4192	4186	4212
10°	4167	4165	4206
15°	4114	4136	4209
20°	4043	4091	4164
25°	3957	4002	4075
30°	3814	3866	3972
35°	3627	3668	3817
40°	3353	3389	3509
45°	3012	3066	3114
50°	2604	2697	2578
55°	2273	2213	2183
60°	1968	1772	1891
65°	1759	1391	1698
70°	1632	1152	1675
75°	1629	1218	1860
80°	1802	1533	2097
85°	1880	1661	2371



TEST NUMBER: P292301

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	4.3
10°-20°	419.8	12.3
20°-30°	620.9	18.3
30°-40°	700.6	20.6
40°-50°	617.6	18.2
50°-60°	423.7	12.5
60°-70°	250.0	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°	1188.0	34.9
0°-40°	1888.6	55.5
0°-60°	2929.9	86.1
0°-90°	3401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1552	1549	1550	1555	1559	147
15°	1477	1478	1485	1503	1511	416
25°	1333	1338	1348	1365	1372	612
35°	1104	1114	1117	1144	1162	688
45°	791	795	806	810	818	608
55°	484	472	472	456	465	434
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: P292301

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557.5	1557.5	1557.5	1557.5	1557.5
2.5°	1558.3	1554.4	1552.8	1559.1	1563.1
5°	1552.0	1548.8	1549.6	1555.2	1559.1
7.5°	1540.9	1538.5	1538.5	1546.5	1550.4
10°	1525.1	1524.3	1524.3	1533.8	1539.3
12.5°	1502.9	1503.7	1506.9	1519.5	1529.0
15°	1476.8	1478.4	1484.7	1502.9	1510.8
17.5°	1448.3	1448.3	1461.0	1475.2	1484.7
20°	1411.9	1414.3	1428.5	1444.4	1453.9
22.5°	1374.7	1378.7	1390.5	1408.7	1417.5
25°	1332.8	1337.5	1347.8	1365.2	1372.3
27.5°	1283.7	1290.0	1301.1	1313.8	1328.8
30°	1227.5	1237.0	1244.1	1261.5	1278.2
32.5°	1170.5	1179.2	1187.1	1205.3	1224.3
35°	1104.0	1113.5	1116.7	1143.6	1161.8
37.5°	1036.0	1039.9	1041.5	1068.4	1088.2
40°	954.5	962.4	964.8	986.1	998.8
42.5°	876.1	879.3	884.0	899.9	914.9
45°	791.4	795.4	805.7	810.4	818.3
47.5°	702.8	714.7	726.5	711.5	712.3
50°	622.1	631.6	644.2	615.7	615.7
52.5°	550.0	554.8	555.6	531.8	536.6
55°	484.4	472.5	471.7	455.9	465.4
57.5°	418.7	402.8	397.3	392.5	403.6
60°	365.6	337.1	329.2	336.4	351.4
62.5°	322.1	285.7	270.7	288.9	302.3
65°	276.2	243.0	218.4	252.5	266.7
67.5°	240.6	208.9	177.3	225.6	235.8
70°	207.4	182.8	146.4	205.0	212.9
72.5°	180.4	161.5	126.6	185.2	194.7
75°	156.7	140.9	117.1	163.8	178.9
77.5°	137.7	120.3	109.2	141.7	159.9
80°	116.3	98.9	98.9	118.7	135.3
82.5°	91.8	77.6	79.9	96.6	108.4
85°	60.9	57.0	53.8	70.4	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)