

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: P292341

Luminaire Tested: **22GR-LD5-36-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-A125-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3402.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

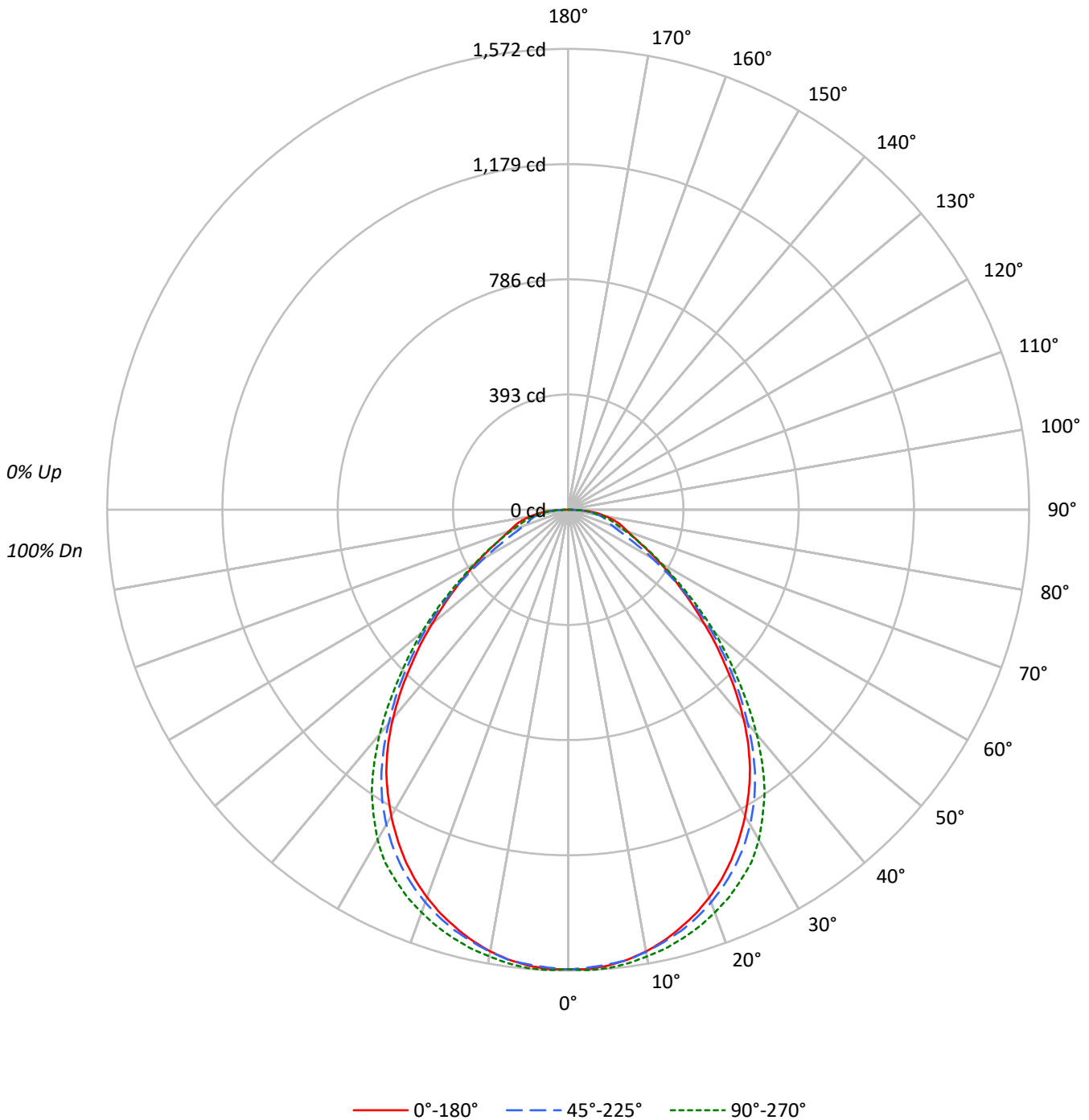
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4220	4220	4220
5°	4217	4206	4240
10°	4181	4185	4229
15°	4115	4143	4214
20°	4029	4082	4186
25°	3912	3992	4138
30°	3749	3855	4040
35°	3551	3651	3836
40°	3266	3346	3514
45°	2901	3006	3115
50°	2534	2650	2730
55°	2203	2233	2315
60°	1938	1776	1977
65°	1722	1419	1733
70°	1692	1260	1598
75°	1848	1386	1633
80°	2029	1647	1745
85°	2424	1911	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	4.4
10°-20°	420.3	12.4
20°-30°	620.5	18.2
30°-40°	694.3	20.4
40°-50°	609.7	17.9
50°-60°	431.4	12.7
60°-70°	251.1	7.4
70°-80°	156.5	4.6
80°-90°	70.0	2.1
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°	1189.0	34.9
0°-40°	1883.3	55.4
0°-60°	2924.4	86.0
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°	1568	1568	1568	1568	1568	
5°	1561	1557	1557	1565	1570	148
15°	1477	1480	1487	1503	1513	416
25°	1318	1323	1344	1376	1394	605
35°	1081	1086	1111	1145	1168	672
45°	762	771	790	809	819	590
55°	470	479	476	485	493	424
65°	270	249	223	243	272	274
75°	178	153	133	136	157	186
85°	78	82	62	60	64	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1568.2	1568.2	1568.2	1568.2	1568.2
2.5°	1568.2	1565.0	1563.4	1568.9	1572.1
5°	1561.0	1557.0	1557.0	1565.0	1569.7
7.5°	1548.3	1544.4	1549.1	1556.3	1561.0
10°	1530.1	1528.5	1531.7	1541.2	1547.5
12.5°	1506.3	1507.1	1510.2	1525.3	1533.3
15°	1476.9	1480.1	1487.2	1503.1	1512.6
17.5°	1445.2	1447.6	1458.7	1476.9	1490.4
20°	1407.1	1411.9	1425.4	1448.4	1461.9
22.5°	1365.1	1370.6	1387.3	1415.1	1431.7
25°	1317.5	1323.1	1344.5	1376.2	1393.6
27.5°	1263.6	1272.3	1296.1	1331.0	1354.8
30°	1206.5	1213.6	1240.6	1280.2	1300.1
32.5°	1145.4	1154.1	1179.5	1217.6	1235.0
35°	1081.1	1085.9	1111.3	1144.6	1167.6
37.5°	1008.2	1010.5	1034.3	1065.3	1085.9
40°	929.6	931.2	952.6	982.0	1000.2
42.5°	847.9	848.7	871.7	893.9	909.8
45°	762.3	771.0	790.0	809.1	818.6
47.5°	685.3	691.7	709.1	725.8	734.5
50°	605.2	621.1	633.0	641.7	652.0
52.5°	536.2	549.7	552.9	563.2	571.9
55°	469.6	479.1	475.9	484.6	493.4
57.5°	413.3	408.5	398.2	413.3	424.4
60°	360.1	347.4	330.0	350.6	367.3
62.5°	312.5	291.9	270.5	291.1	318.9
65°	270.5	249.1	222.9	242.7	272.1
67.5°	238.8	216.5	185.6	205.4	234.8
70°	215.0	192.0	160.2	176.9	203.1
72.5°	195.9	171.3	143.6	154.7	176.9
75°	177.7	153.1	133.3	136.4	157.1
77.5°	156.3	138.0	122.2	120.6	136.4
80°	130.9	125.3	106.3	103.9	112.6
82.5°	107.9	105.5	87.3	84.9	88.0
85°	78.5	81.7	61.9	60.3	63.5
87.5°	41.2	45.2	32.5	34.1	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)