

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: P292339

Luminaire Tested: **22GR-LD5-32-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292339
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-LD5-32-A125-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3399.0 lumens
Efficiency: N/A
Efficacy: 131.9 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

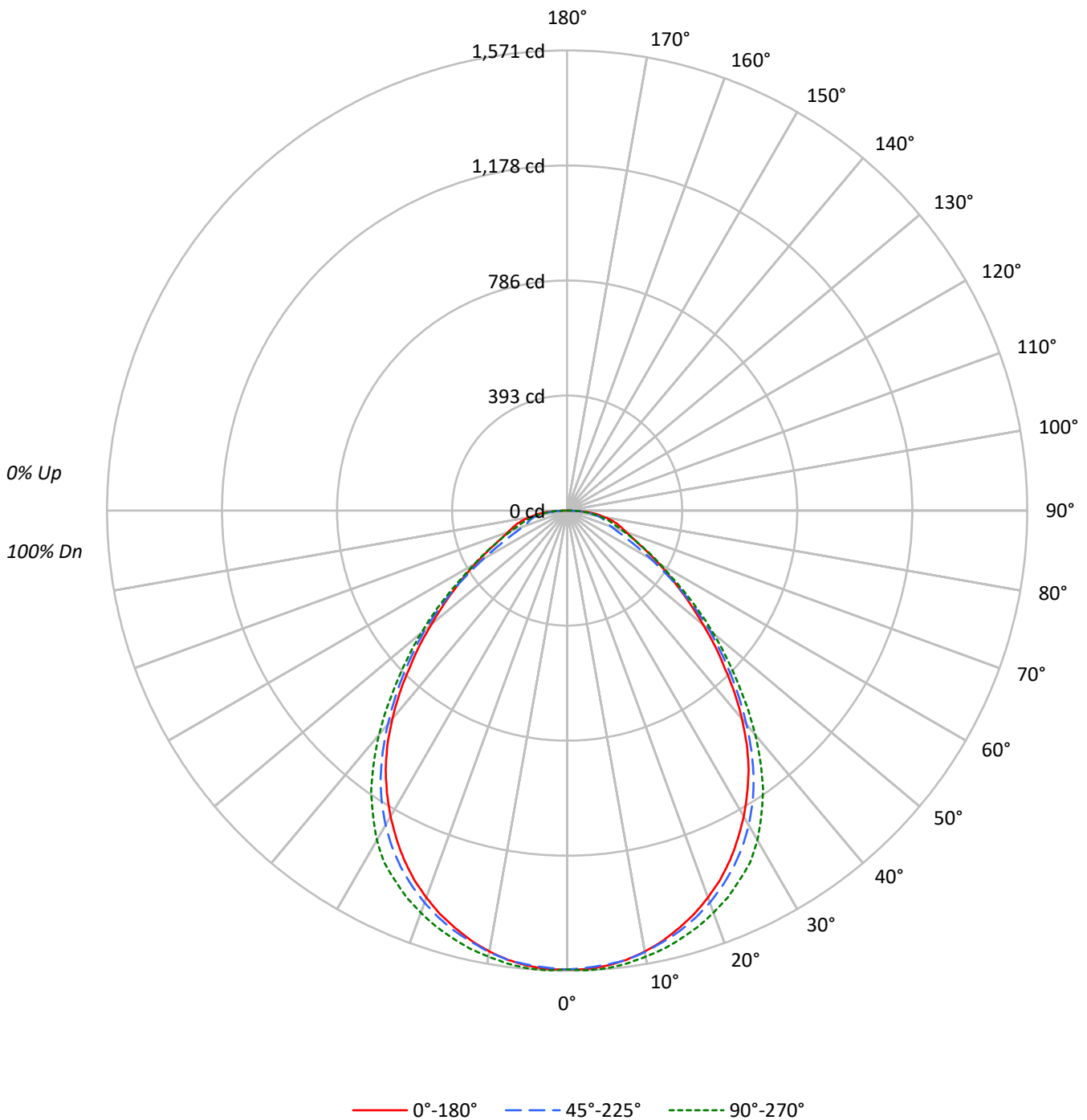
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4216	4216	4216
5°	4213	4202	4237
10°	4177	4182	4225
15°	4111	4140	4210
20°	4026	4078	4183
25°	3908	3988	4134
30°	3746	3851	4036
35°	3549	3647	3832
40°	3263	3344	3510
45°	2898	3004	3113
50°	2532	2647	2727
55°	2201	2231	2312
60°	1936	1774	1975
65°	1720	1418	1731
70°	1690	1260	1596
75°	1845	1384	1631
80°	2027	1646	1743
85°	2424	1908	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	4.4
10°-20°	419.9	12.4
20°-30°	619.9	18.2
30°-40°	693.7	20.4
40°-50°	609.2	17.9
50°-60°	431.0	12.7
60°-70°	250.9	7.4
70°-80°	156.4	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°	1187.9	34.9
0°-40°	1881.6	55.4
0°-60°	2921.8	86.0
0°-90°	3399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1560	1556	1556	1564	1568	148
15°	1476	1479	1486	1502	1511	416
25°	1316	1322	1343	1375	1392	605
35°	1080	1085	1110	1144	1167	672
45°	762	770	789	808	818	589
55°	469	479	476	484	493	424
65°	270	249	223	242	272	274
75°	178	153	133	136	157	185
85°	78	82	62	60	63	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.8	1566.8	1566.8	1566.8	1566.8
2.5°	1566.8	1563.6	1562.0	1567.6	1570.7
5°	1559.6	1555.7	1555.7	1563.6	1568.4
7.5°	1547.0	1543.0	1547.8	1554.9	1559.6
10°	1528.7	1527.1	1530.3	1539.8	1546.2
12.5°	1505.0	1505.7	1508.9	1524.0	1531.9
15°	1475.6	1478.8	1485.9	1501.8	1511.3
17.5°	1443.9	1446.3	1457.4	1475.6	1489.1
20°	1405.9	1410.6	1424.1	1447.1	1460.6
22.5°	1363.9	1369.4	1386.1	1413.8	1430.5
25°	1316.3	1321.9	1343.3	1375.0	1392.4
27.5°	1262.5	1271.2	1294.9	1329.8	1353.6
30°	1205.4	1212.5	1239.5	1279.1	1298.9
32.5°	1144.4	1153.1	1178.4	1216.5	1233.9
35°	1080.2	1084.9	1110.3	1143.6	1166.6
37.5°	1007.3	1009.6	1033.4	1064.3	1084.9
40°	928.8	930.4	951.8	981.1	999.3
42.5°	847.2	848.0	871.0	893.1	909.0
45°	761.6	770.3	789.3	808.3	817.9
47.5°	684.7	691.1	708.5	725.1	733.9
50°	604.7	620.5	632.4	641.1	651.4
52.5°	535.7	549.2	552.4	562.7	571.4
55°	469.2	478.7	475.5	484.2	492.9
57.5°	412.9	408.1	397.8	412.9	424.0
60°	359.8	347.1	329.7	350.3	366.9
62.5°	312.2	291.6	270.2	290.8	318.6
65°	270.2	248.8	222.7	242.5	271.8
67.5°	238.5	216.4	185.4	205.3	234.6
70°	214.8	191.8	160.1	176.7	202.9
72.5°	195.7	171.2	143.4	154.5	176.7
75°	177.5	153.0	133.1	136.3	156.9
77.5°	156.1	137.9	122.0	120.5	136.3
80°	130.8	125.2	106.2	103.8	112.5
82.5°	107.8	105.4	87.2	84.8	88.0
85°	78.5	81.6	61.8	60.2	63.4
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)