

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: P292495

Luminaire Tested: **22GR-LD5-36-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292495
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-L92765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3328.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

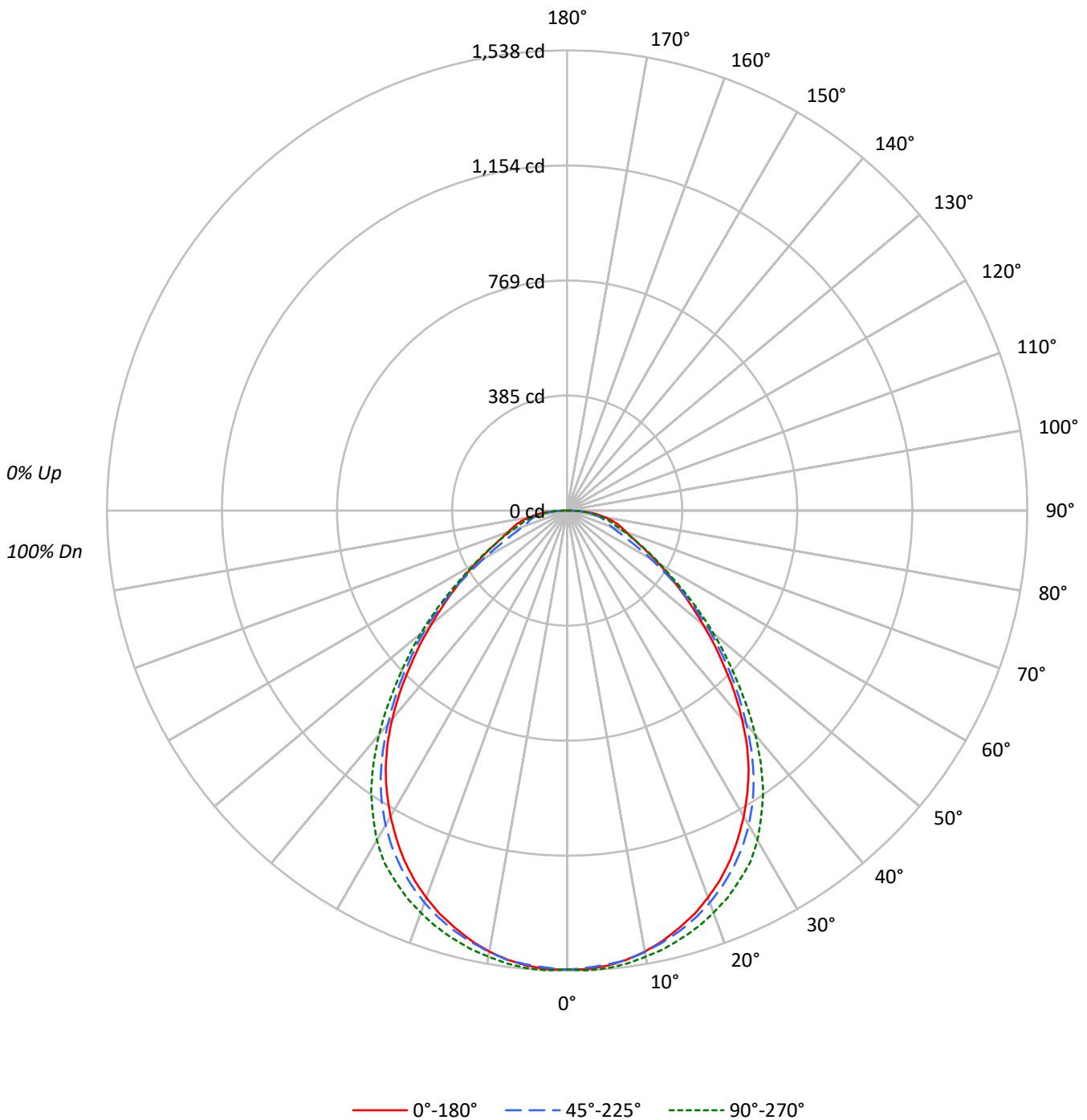
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4128	4128	4128
5°	4125	4115	4148
10°	4090	4094	4137
15°	4025	4053	4122
20°	3942	3993	4095
25°	3827	3905	4048
30°	3667	3771	3952
35°	3474	3571	3752
40°	3195	3274	3437
45°	2838	2941	3048
50°	2478	2592	2670
55°	2155	2184	2264
60°	1896	1737	1934
65°	1685	1388	1694
70°	1655	1233	1563
75°	1807	1356	1597
80°	1984	1612	1708
85°	2371	1868	1917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	4.4
10°-20°	411.2	12.4
20°-30°	607.0	18.2
30°-40°	679.2	20.4
40°-50°	596.4	17.9
50°-60°	422.0	12.7
60°-70°	245.6	7.4
70°-80°	153.1	4.6
80°-90°	68.5	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°	1163.1	34.9
0°-40°	1842.3	55.4
0°-60°	2860.8	86.0
0°-90°	3328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1527	1523	1523	1531	1536	145
15°	1445	1448	1455	1470	1480	407
25°	1289	1294	1315	1346	1363	592
35°	1058	1062	1087	1120	1142	658
45°	746	754	773	792	801	577
55°	459	469	466	474	483	415
65°	265	244	218	237	266	268
75°	174	150	130	134	154	182
85°	77	80	60	59	62	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.0	1534.0	1534.0	1534.0	1534.0
2.5°	1534.0	1530.9	1529.4	1534.8	1537.9
5°	1527.1	1523.2	1523.2	1530.9	1535.6
7.5°	1514.6	1510.8	1515.4	1522.4	1527.1
10°	1496.8	1495.2	1498.3	1507.7	1513.9
12.5°	1473.5	1474.3	1477.4	1492.1	1499.9
15°	1444.8	1447.9	1454.9	1470.4	1479.7
17.5°	1413.8	1416.1	1427.0	1444.8	1458.0
20°	1376.5	1381.2	1394.4	1416.9	1430.1
22.5°	1335.4	1340.8	1357.1	1384.3	1400.6
25°	1288.8	1294.3	1315.2	1346.3	1363.3
27.5°	1236.1	1244.6	1267.9	1302.0	1325.3
30°	1180.2	1187.2	1213.6	1252.4	1271.8
32.5°	1120.5	1129.0	1153.8	1191.1	1208.1
35°	1057.6	1062.3	1087.1	1119.7	1142.2
37.5°	986.2	988.6	1011.8	1042.1	1062.3
40°	909.4	911.0	931.9	960.6	978.5
42.5°	829.5	830.3	852.8	874.5	890.0
45°	745.7	754.2	772.8	791.5	800.8
47.5°	670.4	676.6	693.7	710.0	718.5
50°	592.0	607.6	619.2	627.7	637.8
52.5°	524.5	537.7	540.8	550.9	559.5
55°	459.4	468.7	465.6	474.1	482.6
57.5°	404.3	399.6	389.5	404.3	415.1
60°	352.3	339.9	322.8	343.0	359.3
62.5°	305.7	285.5	264.6	284.8	311.9
65°	264.6	243.6	218.0	237.4	266.1
67.5°	233.6	211.8	181.6	201.0	229.7
70°	210.3	187.8	156.7	173.0	198.6
72.5°	191.7	167.6	140.4	151.3	173.0
75°	173.8	149.8	130.4	133.5	153.6
77.5°	152.9	135.0	119.5	117.9	133.5
80°	128.0	122.6	104.0	101.6	110.2
82.5°	105.5	103.2	85.4	83.0	86.1
85°	76.8	79.9	60.5	59.0	62.1
87.5°	40.3	44.2	31.8	33.4	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)