

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: P292498

Luminaire Tested: **22GR-LD5-36-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292498
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3417.0 lumens
Efficiency: N/A
Efficacy: 116.3 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

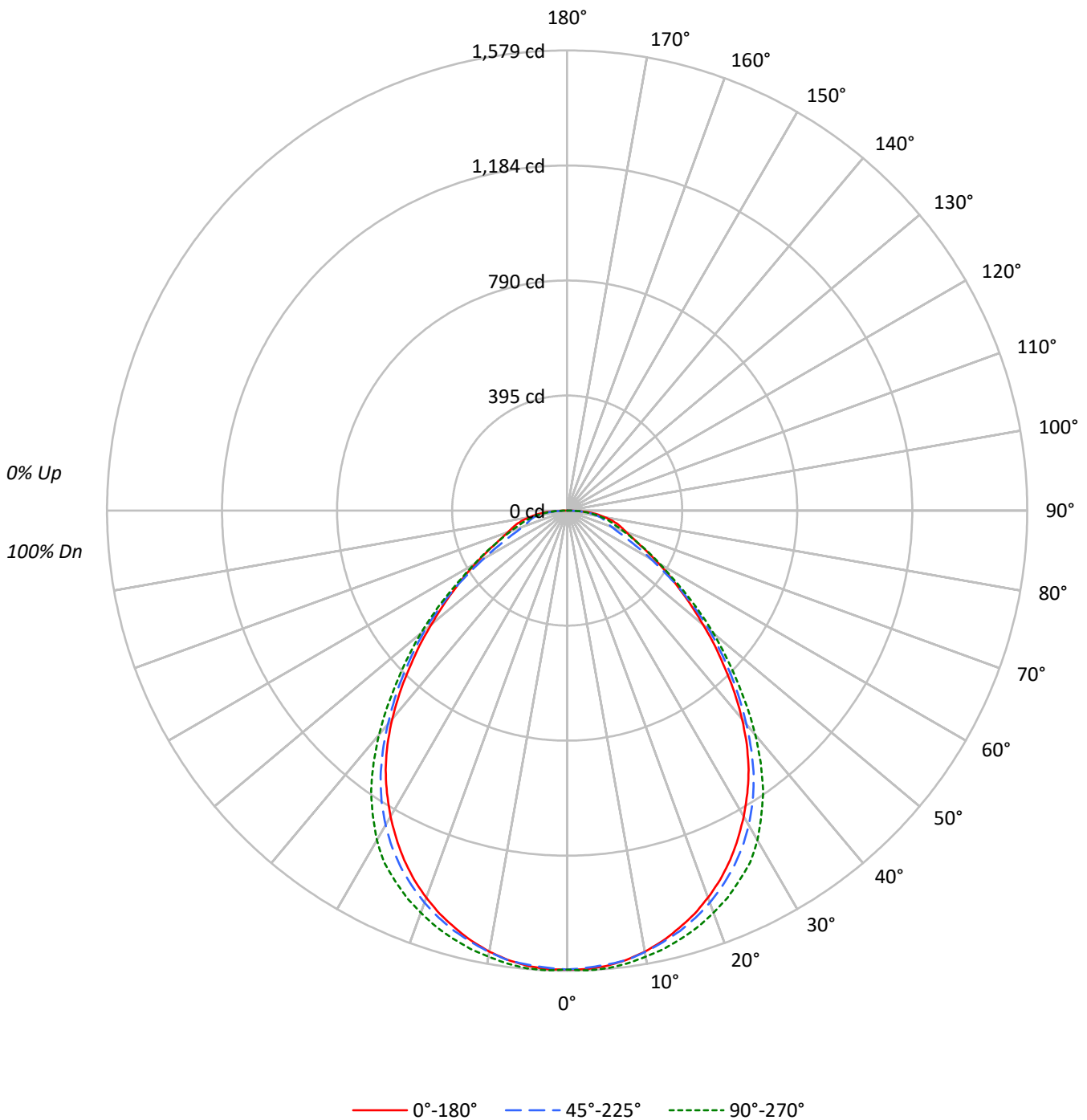
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4239	4239	4239
5°	4235	4224	4259
10°	4199	4204	4247
15°	4133	4162	4233
20°	4047	4100	4205
25°	3929	4010	4156
30°	3765	3872	4057
35°	3567	3667	3852
40°	3280	3361	3529
45°	2914	3020	3129
50°	2545	2662	2742
55°	2213	2243	2325
60°	1947	1784	1985
65°	1730	1426	1740
70°	1699	1266	1605
75°	1856	1391	1640
80°	2038	1655	1753
85°	2436	1917	1967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	4.4
10°-20°	422.1	12.4
20°-30°	623.2	18.2
30°-40°	697.4	20.4
40°-50°	612.4	17.9
50°-60°	433.3	12.7
60°-70°	252.2	7.4
70°-80°	157.2	4.6
80°-90°	70.3	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°	1194.2	34.9
0°-40°	1891.6	55.4
0°-60°	2937.3	86.0
0°-90°	3417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1568	1564	1564	1572	1577	149
15°	1483	1487	1494	1510	1519	418
25°	1323	1329	1350	1382	1400	608
35°	1086	1091	1116	1150	1173	675
45°	766	774	794	813	822	592
55°	472	481	478	487	496	426
65°	272	250	224	244	273	276
75°	178	154	134	137	158	186
85°	79	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°	1575.1	1575.1	1575.1	1575.1	1575.1
2.5°	1575.1	1571.9	1570.3	1575.9	1579.1
5°	1567.9	1563.9	1563.9	1571.9	1576.7
7.5°	1555.2	1551.2	1555.9	1563.1	1567.9
10°	1536.8	1535.2	1538.4	1548.0	1554.4
12.5°	1512.9	1513.7	1516.9	1532.0	1540.0
15°	1483.4	1486.6	1493.8	1509.7	1519.3
17.5°	1451.6	1454.0	1465.1	1483.4	1497.0
20°	1413.3	1418.1	1431.7	1454.8	1468.3
22.5°	1371.1	1376.7	1393.4	1421.3	1438.0
25°	1323.3	1328.9	1350.4	1382.3	1399.8
27.5°	1269.1	1277.9	1301.8	1336.9	1360.8
30°	1211.8	1218.9	1246.0	1285.9	1305.8
32.5°	1150.4	1159.2	1184.7	1222.9	1240.5
35°	1085.9	1090.7	1116.2	1149.6	1172.7
37.5°	1012.6	1015.0	1038.9	1070.0	1090.7
40°	933.7	935.3	956.8	986.3	1004.6
42.5°	851.7	852.5	875.6	897.9	913.8
45°	765.6	774.4	793.5	812.6	822.2
47.5°	688.3	694.7	712.2	729.0	737.7
50°	607.9	623.8	635.8	644.5	654.9
52.5°	538.6	552.1	555.3	565.7	574.4
55°	471.6	481.2	478.0	486.8	495.5
57.5°	415.1	410.3	399.9	415.1	426.2
60°	361.7	349.0	331.4	352.1	368.9
62.5°	313.9	293.2	271.7	292.4	320.3
65°	271.7	250.2	223.9	243.8	273.3
67.5°	239.8	217.5	186.4	206.3	235.8
70°	215.9	192.8	160.9	177.7	204.0
72.5°	196.8	172.1	144.2	155.4	177.7
75°	178.5	153.8	133.8	137.0	157.7
77.5°	156.9	138.6	122.7	121.1	137.0
80°	131.5	125.9	106.8	104.4	113.1
82.5°	108.4	106.0	87.6	85.2	88.4
85°	78.9	82.1	62.1	60.5	63.7
87.5°	41.4	45.4	32.7	34.3	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)