

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: P292399

Luminaire Tested: **22GR-LD5-36-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292399
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-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3754.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

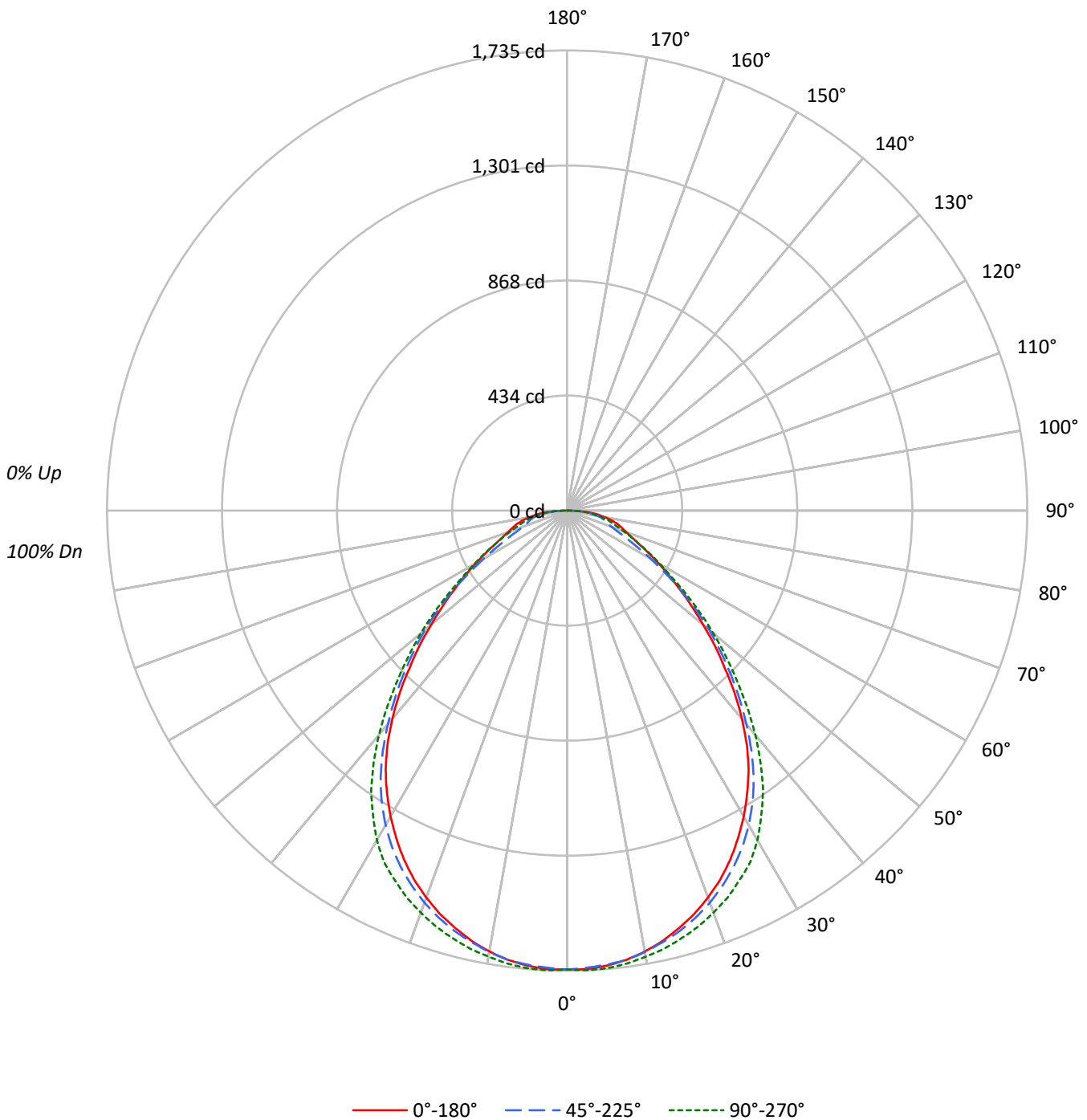
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4656	4656	4656
5°	4653	4641	4679
10°	4614	4618	4666
15°	4540	4572	4650
20°	4446	4504	4619
25°	4317	4405	4566
30°	4137	4254	4458
35°	3919	4028	4232
40°	3603	3693	3877
45°	3201	3318	3438
50°	2796	2924	3012
55°	2431	2464	2554
60°	2139	1960	2181
65°	1901	1566	1911
70°	1866	1391	1763
75°	2039	1528	1802
80°	2238	1818	1926
85°	2677	2109	2161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	4.4
10°-20°	463.8	12.4
20°-30°	684.7	18.2
30°-40°	766.1	20.4
40°-50°	672.8	17.9
50°-60°	476.1	12.7
60°-70°	277.1	7.4
70°-80°	172.7	4.6
80°-90°	77.3	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°	1312.0	34.9
0°-40°	2078.1	55.4
0°-60°	3227.0	86.0
0°-90°	3754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1730	1730	1730	1730	1730	
5°	1722	1718	1718	1727	1732	163
15°	1630	1633	1641	1659	1669	459
25°	1454	1460	1484	1519	1538	668
35°	1193	1198	1226	1263	1288	742
45°	841	851	872	893	903	651
55°	518	529	525	535	544	468
65°	298	275	246	268	300	303
75°	196	169	147	150	173	205
85°	87	90	68	66	70	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1730.4	1730.4	1730.4	1730.4	1730.4
2.5°	1730.4	1726.9	1725.2	1731.3	1734.8
5°	1722.5	1718.2	1718.2	1726.9	1732.2
7.5°	1708.5	1704.1	1709.4	1717.3	1722.5
10°	1688.4	1686.6	1690.1	1700.6	1707.7
12.5°	1662.1	1663.0	1666.5	1683.1	1691.9
15°	1629.8	1633.3	1641.1	1658.6	1669.1
17.5°	1594.7	1597.4	1609.6	1629.8	1644.6
20°	1552.7	1558.0	1572.9	1598.2	1613.1
22.5°	1506.3	1512.5	1530.8	1561.5	1579.9
25°	1453.8	1459.9	1483.6	1518.6	1537.8
27.5°	1394.3	1403.9	1430.2	1468.7	1495.0
30°	1331.3	1339.2	1368.9	1412.7	1434.6
32.5°	1263.9	1273.5	1301.5	1343.5	1362.8
35°	1193.0	1198.2	1226.3	1263.0	1288.4
37.5°	1112.5	1115.1	1141.4	1175.5	1198.2
40°	1025.8	1027.6	1051.2	1083.6	1103.7
42.5°	935.7	936.5	961.9	986.4	1003.9
45°	841.1	850.8	871.8	892.8	903.3
47.5°	756.2	763.2	782.5	800.9	810.5
50°	667.8	685.3	698.5	708.1	719.5
52.5°	591.7	606.6	610.1	621.4	631.1
55°	518.2	528.7	525.2	534.8	544.4
57.5°	456.0	450.8	439.4	456.0	468.3
60°	397.4	383.4	364.1	386.9	405.2
62.5°	344.9	322.1	298.5	321.2	351.9
65°	298.5	274.8	246.0	267.8	300.2
67.5°	263.5	238.9	204.8	226.7	259.1
70°	237.2	211.8	176.8	195.2	224.1
72.5°	216.2	189.1	158.4	170.7	195.2
75°	196.1	168.9	147.0	150.5	173.3
77.5°	172.4	152.3	134.8	133.0	150.5
80°	144.4	138.3	117.3	114.7	124.3
82.5°	119.0	116.4	96.3	93.7	97.2
85°	86.7	90.2	68.3	66.5	70.0
87.5°	45.5	49.9	35.9	37.6	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)