

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: P292398

Luminaire Tested: **22GR-LD5-36-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292398
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3744.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

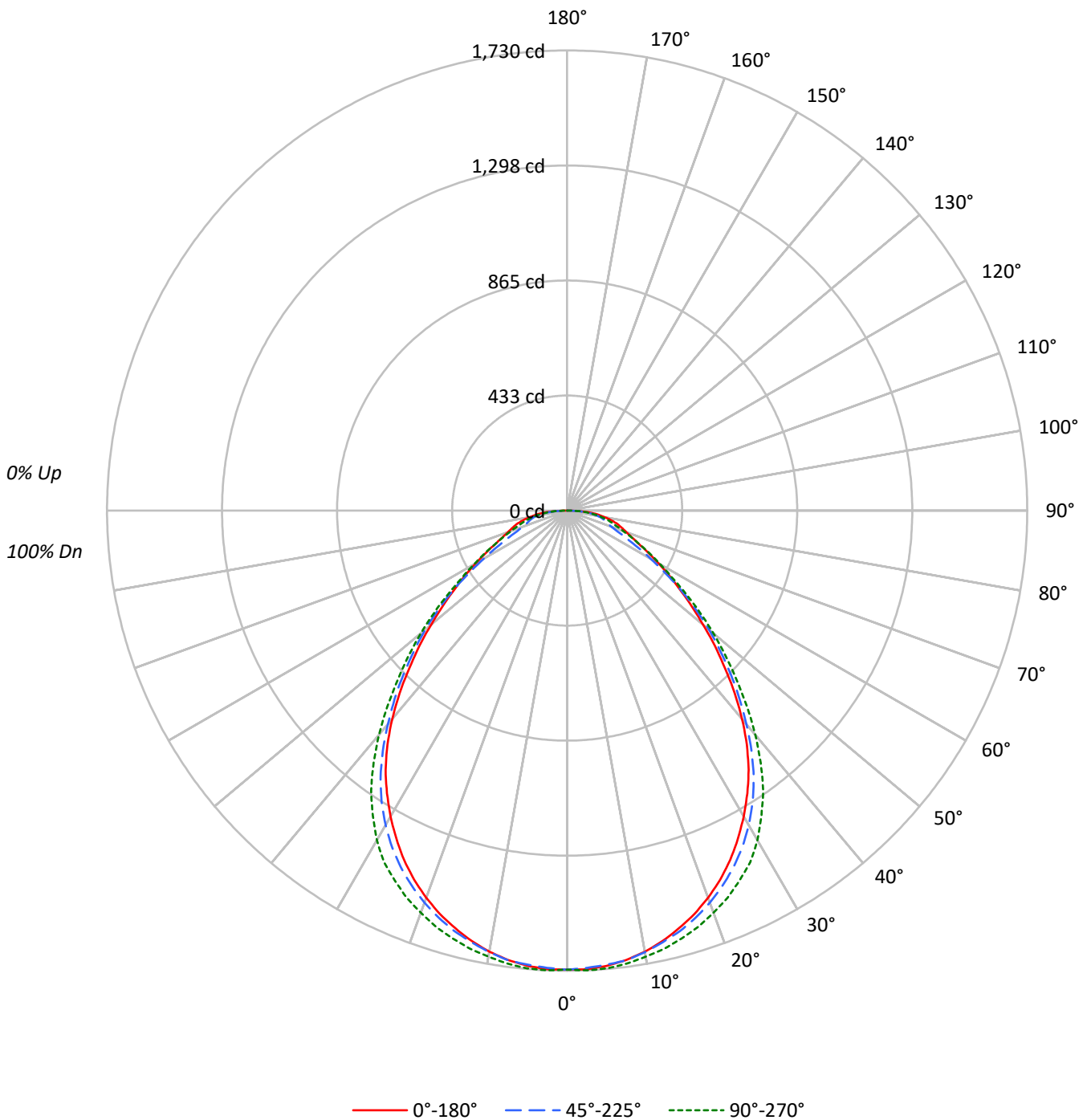
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	4644	4644	4644
5°	4640	4629	4666
10°	4601	4606	4654
15°	4528	4560	4638
20°	4435	4492	4607
25°	4305	4393	4554
30°	4126	4242	4446
35°	3909	4018	4221
40°	3594	3683	3867
45°	3193	3309	3428
50°	2789	2916	3004
55°	2425	2457	2548
60°	2133	1954	2175
65°	1896	1562	1906
70°	1862	1387	1758
75°	2033	1525	1797
80°	2232	1813	1922
85°	2668	2103	2155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	4.4
10°-20°	462.5	12.4
20°-30°	682.8	18.2
30°-40°	764.1	20.4
40°-50°	671.0	17.9
50°-60°	474.8	12.7
60°-70°	276.4	7.4
70°-80°	172.2	4.6
80°-90°	77.1	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°	1308.5	34.9
0°-40°	2072.6	55.4
0°-60°	3218.4	86.0
0°-90°	3744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1718	1714	1714	1722	1728	163
15°	1625	1629	1637	1654	1665	458
25°	1450	1456	1480	1514	1534	666
35°	1190	1195	1223	1260	1285	740
45°	839	848	869	890	901	649
55°	517	527	524	533	543	467
65°	298	274	245	267	299	302
75°	196	168	147	150	173	204
85°	86	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°	1725.8	1725.8	1725.8	1725.8	1725.8
2.5°	1725.8	1722.3	1720.6	1726.7	1730.2
5°	1717.9	1713.6	1713.6	1722.3	1727.5
7.5°	1704.0	1699.6	1704.8	1712.7	1717.9
10°	1683.9	1682.2	1685.6	1696.1	1703.1
12.5°	1657.7	1658.6	1662.1	1678.7	1687.4
15°	1625.4	1628.9	1636.8	1654.2	1664.7
17.5°	1590.5	1593.1	1605.3	1625.4	1640.3
20°	1548.6	1553.8	1568.7	1594.0	1608.8
22.5°	1502.3	1508.4	1526.8	1557.3	1575.7
25°	1450.0	1456.1	1479.6	1514.5	1533.8
27.5°	1390.6	1400.2	1426.4	1464.8	1491.0
30°	1327.7	1335.6	1365.3	1408.9	1430.7
32.5°	1260.5	1270.1	1298.1	1340.0	1359.2
35°	1189.8	1195.1	1223.0	1259.6	1285.0
37.5°	1109.5	1112.1	1138.3	1172.4	1195.1
40°	1023.1	1024.8	1048.4	1080.7	1100.8
42.5°	933.2	934.0	959.4	983.8	1001.3
45°	838.9	848.5	869.4	890.4	900.9
47.5°	754.2	761.2	780.4	798.7	808.3
50°	666.1	683.5	696.6	706.2	717.6
52.5°	590.1	604.9	608.4	619.8	629.4
55°	516.8	527.3	523.8	533.4	543.0
57.5°	454.8	449.6	438.2	454.8	467.0
60°	396.3	382.3	363.1	385.8	404.2
62.5°	343.9	321.2	297.7	320.4	350.9
65°	297.7	274.1	245.3	267.1	299.4
67.5°	262.8	238.3	204.3	226.1	258.4
70°	236.6	211.3	176.3	194.7	223.5
72.5°	215.6	188.6	158.0	170.2	194.7
75°	195.5	168.5	146.7	150.1	172.8
77.5°	172.0	151.9	134.4	132.7	150.1
80°	144.0	137.9	117.0	114.4	124.0
82.5°	118.7	116.1	96.0	93.4	96.9
85°	86.4	89.9	68.1	66.3	69.8
87.5°	45.4	49.8	35.8	37.5	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)