

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: P292345

Luminaire Tested: **22GR-LD5-36-A125-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292345  
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-L83050-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3816.0 lumens  
Efficiency: N/A  
Efficacy: 129.4 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

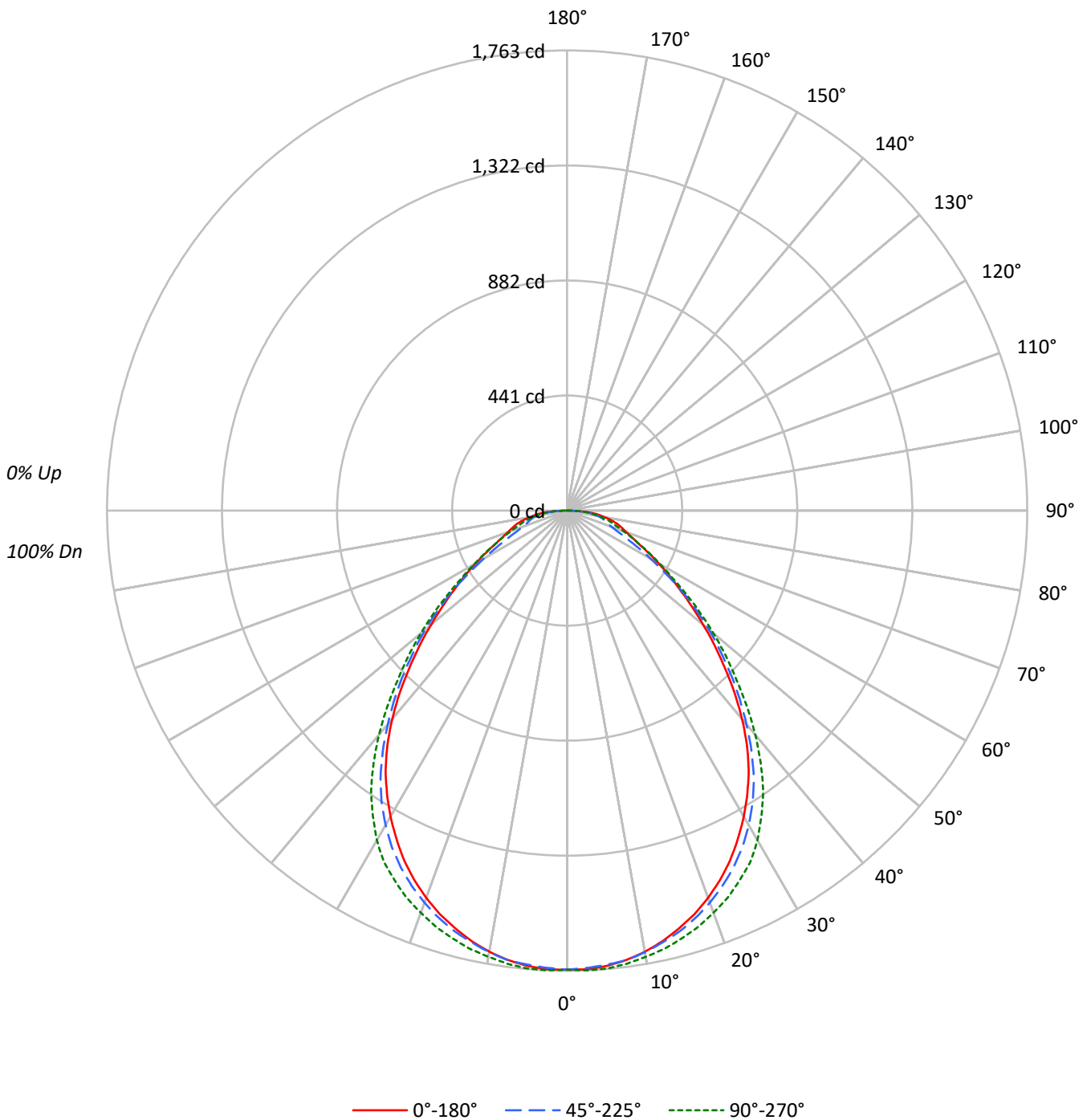
Input Watts (W): 29.481  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4733	4733	4733
5°	4730	4718	4756
10°	4690	4695	4743
15°	4615	4647	4727
20°	4520	4578	4696
25°	4388	4478	4641
30°	4205	4324	4531
35°	3984	4095	4302
40°	3663	3754	3941
45°	3254	3373	3494
50°	2842	2972	3062
55°	2471	2504	2596
60°	2174	1992	2217
65°	1932	1592	1943
70°	1897	1414	1792
75°	2072	1554	1832
80°	2275	1847	1957
85°	2720	2143	2198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.2	4.4
10°-20°	471.4	12.4
20°-30°	696.0	18.2
30°-40°	778.8	20.4
40°-50°	683.9	17.9
50°-60°	483.9	12.7
60°-70°	281.7	7.4
70°-80°	175.5	4.6
80°-90°	78.5	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°	1333.6	34.9
0°-40°	2112.4	55.4
0°-60°	3280.2	86.0
0°-90°	3816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1759	1759	1759	1759	1759	
5°	1751	1746	1746	1755	1761	166
15°	1657	1660	1668	1686	1697	467
25°	1478	1484	1508	1544	1563	679
35°	1213	1218	1246	1284	1310	754
45°	855	865	886	908	918	661
55°	527	537	534	544	553	476
65°	303	279	250	272	305	308
75°	199	172	150	153	176	208
85°	88	92	69	68	71	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1759.0	1759.0	1759.0	1759.0	1759.0
2.5°	1759.0	1755.4	1753.6	1759.9	1763.4
5°	1751.0	1746.5	1746.5	1755.4	1760.8
7.5°	1736.7	1732.3	1737.6	1745.6	1751.0
10°	1716.3	1714.5	1718.1	1728.7	1735.9
12.5°	1689.6	1690.5	1694.0	1710.9	1719.8
15°	1656.7	1660.2	1668.2	1686.0	1696.7
17.5°	1621.1	1623.7	1636.2	1656.7	1671.8
20°	1578.4	1583.7	1598.8	1624.6	1639.8
22.5°	1531.2	1537.4	1556.1	1587.3	1606.0
25°	1477.8	1484.1	1508.1	1543.7	1563.2
27.5°	1417.3	1427.1	1453.8	1493.0	1519.7
30°	1353.3	1361.3	1391.5	1436.0	1458.3
32.5°	1284.8	1294.6	1323.0	1365.7	1385.3
35°	1212.7	1218.0	1246.5	1283.9	1309.7
37.5°	1130.8	1133.5	1160.2	1194.9	1218.0
40°	1042.8	1044.5	1068.6	1101.5	1121.9
42.5°	951.1	952.0	977.8	1002.7	1020.5
45°	855.0	864.8	886.2	907.5	918.2
47.5°	768.7	775.8	795.4	814.1	823.9
50°	678.9	696.7	710.0	719.8	731.4
52.5°	601.5	616.6	620.1	631.7	641.5
55°	526.7	537.4	533.8	543.6	553.4
57.5°	463.5	458.2	446.6	463.5	476.0
60°	403.9	389.7	370.1	393.3	411.9
62.5°	350.6	327.4	303.4	326.5	357.7
65°	303.4	279.4	250.0	272.3	305.2
67.5°	267.8	242.9	208.2	230.4	263.4
70°	241.1	215.3	179.7	198.4	227.8
72.5°	219.8	192.2	161.0	173.5	198.4
75°	199.3	171.7	149.5	153.0	176.2
77.5°	175.3	154.8	137.0	135.2	153.0
80°	146.8	140.6	119.2	116.6	126.3
82.5°	121.0	118.3	97.9	95.2	98.8
85°	88.1	91.6	69.4	67.6	71.2
87.5°	46.3	50.7	36.5	38.3	39.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)