

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: P292397

Luminaire Tested: **22GR-LD5-36-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292397  
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-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: 3707.0 lumens  
Efficiency: N/A  
Efficacy: 129.0 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

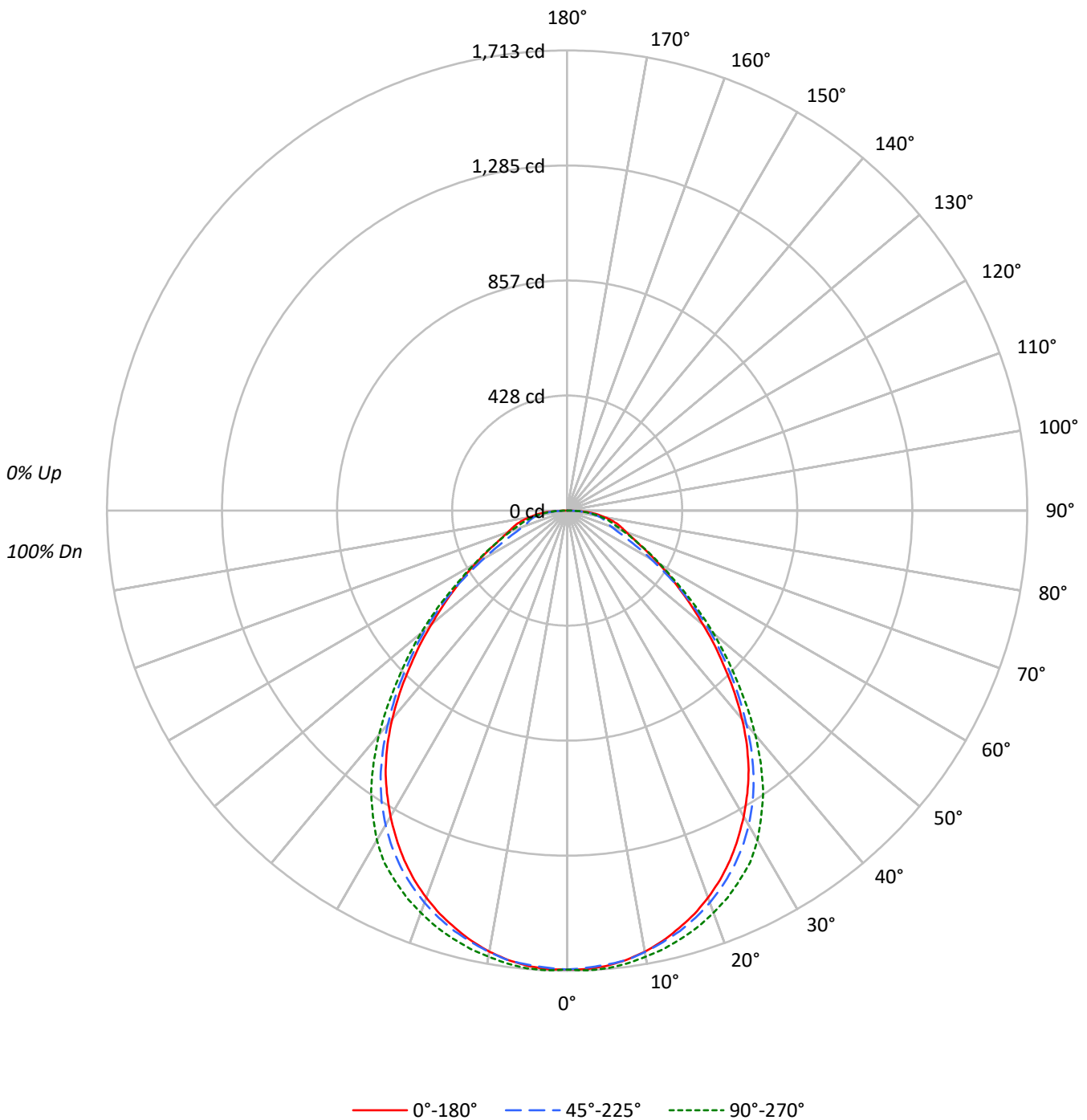
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4598	4598	4598
5°	4595	4583	4621
10°	4556	4561	4608
15°	4483	4515	4592
20°	4391	4448	4562
25°	4263	4350	4509
30°	4085	4200	4402
35°	3870	3978	4180
40°	3558	3646	3829
45°	3161	3276	3395
50°	2761	2887	2974
55°	2401	2433	2522
60°	2112	1935	2154
65°	1876	1547	1888
70°	1843	1374	1741
75°	2013	1510	1779
80°	2210	1795	1901
85°	2643	2081	2133



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.5	4.4
10°-20°	458.0	12.4
20°-30°	676.1	18.2
30°-40°	756.5	20.4
40°-50°	664.4	17.9
50°-60°	470.1	12.7
60°-70°	273.6	7.4
70°-80°	170.5	4.6
80°-90°	76.3	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°	1295.6	34.9
0°-40°	2052.1	55.4
0°-60°	3186.6	86.0
0°-90°	3707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3707.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1701	1697	1697	1705	1710	161
15°	1609	1613	1621	1638	1648	453
25°	1436	1442	1465	1500	1519	659
35°	1178	1183	1211	1247	1272	733
45°	831	840	861	882	892	642
55°	512	522	519	528	538	462
65°	295	271	243	264	296	299
75°	194	167	145	149	171	202
85°	86	89	67	66	69	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1708.7	1708.7	1708.7	1708.7	1708.7
2.5°	1708.7	1705.3	1703.6	1709.6	1713.1
5°	1701.0	1696.6	1696.6	1705.3	1710.5
7.5°	1687.1	1682.8	1688.0	1695.8	1701.0
10°	1667.3	1665.5	1669.0	1679.4	1686.3
12.5°	1641.3	1642.2	1645.6	1662.1	1670.7
15°	1609.3	1612.8	1620.6	1637.9	1648.2
17.5°	1574.8	1577.4	1589.5	1609.3	1624.0
20°	1533.3	1538.5	1553.2	1578.2	1592.9
22.5°	1487.5	1493.5	1511.7	1541.9	1560.1
25°	1435.6	1441.7	1465.0	1499.6	1518.6
27.5°	1376.8	1386.4	1412.3	1450.3	1476.2
30°	1314.6	1322.4	1351.8	1395.0	1416.6
32.5°	1248.1	1257.6	1285.2	1326.7	1345.7
35°	1178.1	1183.2	1210.9	1247.2	1272.3
37.5°	1098.5	1101.1	1127.1	1160.8	1183.2
40°	1013.0	1014.7	1038.0	1070.0	1089.9
42.5°	923.9	924.8	949.9	974.1	991.4
45°	830.6	840.1	860.9	881.6	892.0
47.5°	746.8	753.7	772.7	790.8	800.4
50°	659.5	676.8	689.7	699.2	710.5
52.5°	584.3	599.0	602.4	613.7	623.2
55°	511.7	522.0	518.6	528.1	537.6
57.5°	450.3	445.1	433.9	450.3	462.4
60°	392.4	378.6	359.6	382.0	400.2
62.5°	340.5	318.1	294.7	317.2	347.5
65°	294.7	271.4	242.9	264.5	296.5
67.5°	260.2	236.0	202.2	223.9	255.8
70°	234.2	209.2	174.6	192.7	221.3
72.5°	213.5	186.7	156.4	168.5	192.7
75°	193.6	166.8	145.2	148.7	171.1
77.5°	170.3	150.4	133.1	131.4	148.7
80°	142.6	136.6	115.8	113.2	122.7
82.5°	117.5	115.0	95.1	92.5	95.9
85°	85.6	89.0	67.4	65.7	69.1
87.5°	44.9	49.3	35.4	37.2	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)