

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: P292410

Luminaire Tested: **22GR-LD5-43-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292410  
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-LD5-43-A125-UNV-L82765-W2A1-U-2700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3976.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 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

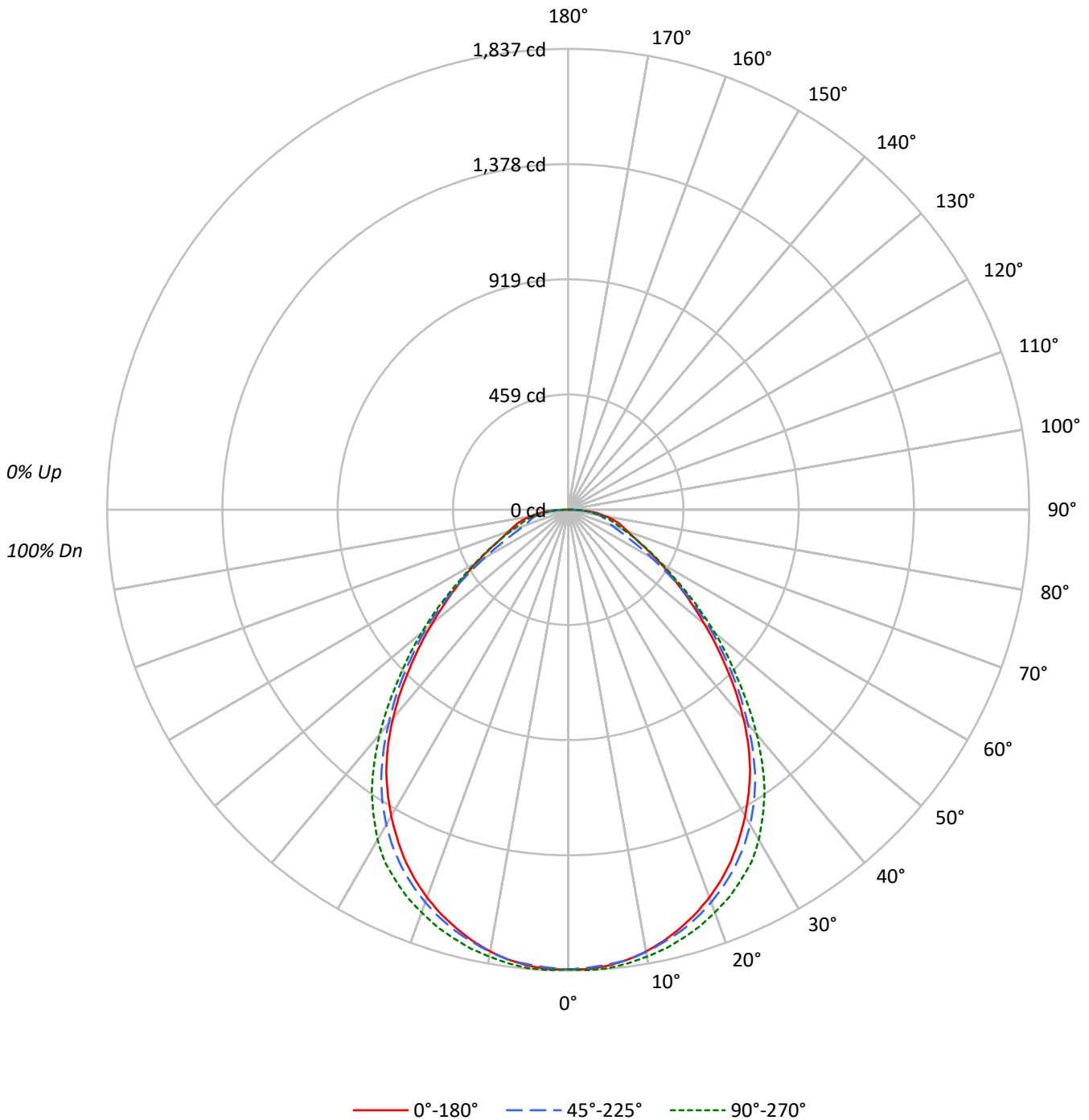
Input Watts (W): 35.154  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4932	4932	4932
5°	4928	4916	4956
10°	4886	4891	4942
15°	4809	4842	4925
20°	4710	4771	4893
25°	4572	4665	4836
30°	4381	4505	4721
35°	4151	4267	4483
40°	3817	3911	4106
45°	3390	3514	3641
50°	2961	3097	3190
55°	2575	2609	2705
60°	2265	2075	2310
65°	2013	1659	2025
70°	1976	1474	1867
75°	2159	1619	1909
80°	2371	1925	2039
85°	2834	2232	2291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.2	4.4
10°-20°	491.2	12.4
20°-30°	725.2	18.2
30°-40°	811.4	20.4
40°-50°	712.6	17.9
50°-60°	504.2	12.7
60°-70°	293.5	7.4
70°-80°	182.9	4.6
80°-90°	81.8	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°	1389.6	34.9
0°-40°	2201.0	55.4
0°-60°	3417.8	86.0
0°-90°	3976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3976.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1824	1820	1820	1829	1835	173
15°	1726	1730	1738	1757	1768	486
25°	1540	1546	1571	1608	1629	707
35°	1264	1269	1299	1338	1365	786
45°	891	901	923	946	957	689
55°	549	560	556	566	577	496
65°	316	291	260	284	318	321
75°	208	179	156	159	184	217
85°	92	96	72	70	74	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1832.7	1832.7	1832.7	1832.7	1832.7
2.5°	1832.7	1829.0	1827.2	1833.7	1837.4
5°	1824.4	1819.8	1819.8	1829.0	1834.6
7.5°	1809.6	1804.9	1810.5	1818.8	1824.4
10°	1788.2	1786.4	1790.1	1801.2	1808.6
12.5°	1760.4	1761.4	1765.1	1782.7	1791.9
15°	1726.1	1729.8	1738.2	1756.7	1767.8
17.5°	1689.0	1691.8	1704.8	1726.1	1741.9
20°	1644.6	1650.1	1665.9	1692.8	1708.5
22.5°	1595.4	1601.9	1621.4	1653.8	1673.3
25°	1539.8	1546.3	1571.3	1608.4	1628.8
27.5°	1476.8	1487.0	1514.8	1555.6	1583.4
30°	1410.0	1418.4	1449.9	1496.2	1519.4
32.5°	1338.6	1348.8	1378.5	1423.0	1443.4
35°	1263.5	1269.1	1298.8	1337.7	1364.6
37.5°	1178.3	1181.0	1208.8	1245.0	1269.1
40°	1086.5	1088.3	1113.4	1147.7	1169.0
42.5°	991.0	991.9	1018.8	1044.8	1063.3
45°	890.9	901.1	923.3	945.6	956.7
47.5°	801.0	808.4	828.8	848.2	858.4
50°	707.3	725.9	739.8	750.0	762.0
52.5°	626.7	642.4	646.1	658.2	668.4
55°	548.8	559.9	556.2	566.4	576.6
57.5°	483.0	477.4	465.4	483.0	496.0
60°	420.9	406.0	385.6	409.7	429.2
62.5°	365.2	341.1	316.1	340.2	372.7
65°	316.1	291.1	260.5	283.7	318.0
67.5°	279.0	253.1	216.9	240.1	274.4
70°	251.2	224.3	187.3	206.7	237.3
72.5°	229.0	200.2	167.8	180.8	206.7
75°	207.7	178.9	155.7	159.4	183.6
77.5°	182.6	161.3	142.8	140.9	159.4
80°	153.0	146.5	124.2	121.4	131.6
82.5°	126.1	123.3	102.0	99.2	102.9
85°	91.8	95.5	72.3	70.5	74.2
87.5°	48.2	52.8	38.0	39.9	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)