

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: P292411

Luminaire Tested: **22GR-LD5-43-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292411  
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-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4091.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 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

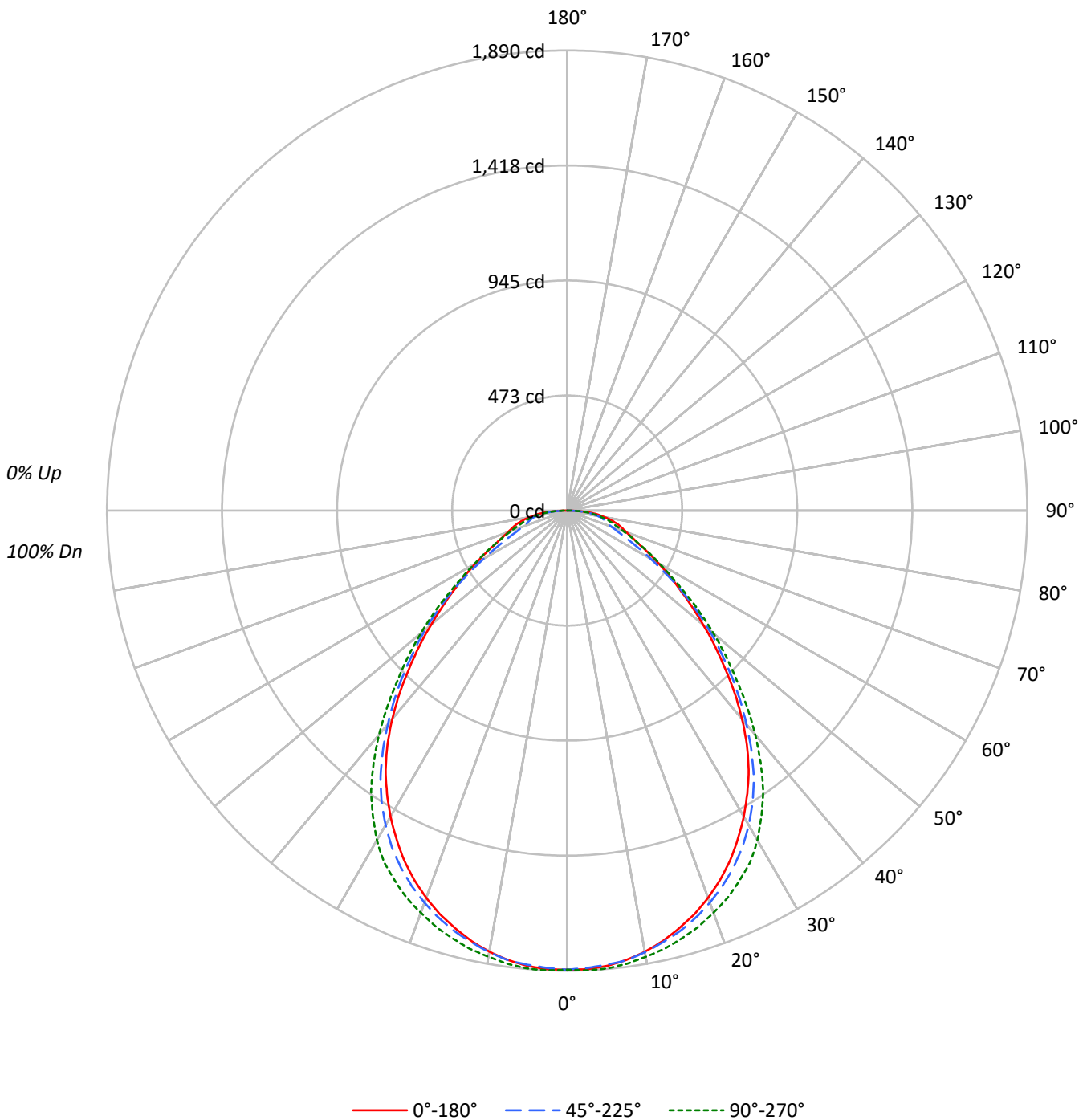
Input Watts (W): 34.875  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5074	5074	5074
5°	5071	5058	5099
10°	5028	5033	5085
15°	4948	4983	5068
20°	4846	4909	5034
25°	4704	4801	4976
30°	4508	4635	4858
35°	4271	4390	4613
40°	3927	4024	4225
45°	3488	3615	3746
50°	3047	3187	3283
55°	2649	2685	2784
60°	2330	2136	2377
65°	2071	1706	2083
70°	2034	1516	1921
75°	2222	1666	1964
80°	2439	1980	2098
85°	2915	2297	2356



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.2	4.4
10°-20°	505.4	12.4
20°-30°	746.1	18.2
30°-40°	834.9	20.4
40°-50°	733.2	17.9
50°-60°	518.8	12.7
60°-70°	302.0	7.4
70°-80°	188.2	4.6
80°-90°	84.2	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°	1429.8	34.9
0°-40°	2264.7	55.4
0°-60°	3516.6	86.0
0°-90°	4091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1877	1872	1872	1882	1888	178
15°	1776	1780	1788	1808	1819	500
25°	1584	1591	1617	1655	1676	728
35°	1300	1306	1336	1376	1404	809
45°	917	927	950	973	984	709
55°	565	576	572	583	593	510
65°	325	300	268	292	327	330
75°	214	184	160	164	189	223
85°	94	98	74	72	76	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1885.7	1885.7	1885.7	1885.7	1885.7
2.5°	1885.7	1881.9	1880.0	1886.7	1890.5
5°	1877.2	1872.4	1872.4	1881.9	1887.7
7.5°	1861.9	1857.1	1862.9	1871.4	1877.2
10°	1840.0	1838.1	1841.9	1853.3	1860.9
12.5°	1811.3	1812.3	1816.1	1834.2	1843.8
15°	1776.1	1779.9	1788.5	1807.5	1819.0
17.5°	1737.9	1740.8	1754.1	1776.1	1792.3
20°	1692.1	1697.8	1714.1	1741.7	1757.9
22.5°	1641.6	1648.2	1668.3	1701.7	1721.7
25°	1584.3	1591.0	1616.8	1654.9	1675.9
27.5°	1519.5	1530.0	1558.6	1600.5	1629.2
30°	1450.8	1459.4	1491.8	1539.5	1563.3
32.5°	1377.3	1387.8	1418.4	1464.1	1485.1
35°	1300.1	1305.8	1336.3	1376.4	1404.1
37.5°	1212.3	1215.2	1243.8	1281.0	1305.8
40°	1117.9	1119.8	1145.6	1180.9	1202.8
42.5°	1019.7	1020.6	1048.3	1075.0	1094.1
45°	916.6	927.1	950.0	972.9	984.4
47.5°	824.1	831.8	852.7	872.8	883.3
50°	727.8	746.9	761.2	771.7	784.1
52.5°	644.8	661.0	664.8	677.2	687.7
55°	564.7	576.1	572.3	582.8	593.3
57.5°	497.0	491.2	478.8	497.0	510.3
60°	433.0	417.8	396.8	421.6	441.6
62.5°	375.8	351.0	325.3	350.1	383.4
65°	325.3	299.5	268.0	291.9	327.2
67.5°	287.1	260.4	223.2	247.0	282.3
70°	258.5	230.8	192.7	212.7	244.2
72.5°	235.6	206.0	172.6	186.0	212.7
75°	213.7	184.1	160.2	164.1	188.9
77.5°	187.9	166.0	146.9	145.0	164.1
80°	157.4	150.7	127.8	125.0	135.4
82.5°	129.7	126.9	104.9	102.1	105.9
85°	94.4	98.2	74.4	72.5	76.3
87.5°	49.6	54.4	39.1	41.0	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)