

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: P292414

Luminaire Tested: **22GR-LD5-43-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292414  
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-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4401.0 lumens  
Efficiency: N/A  
Efficacy: 122.9 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

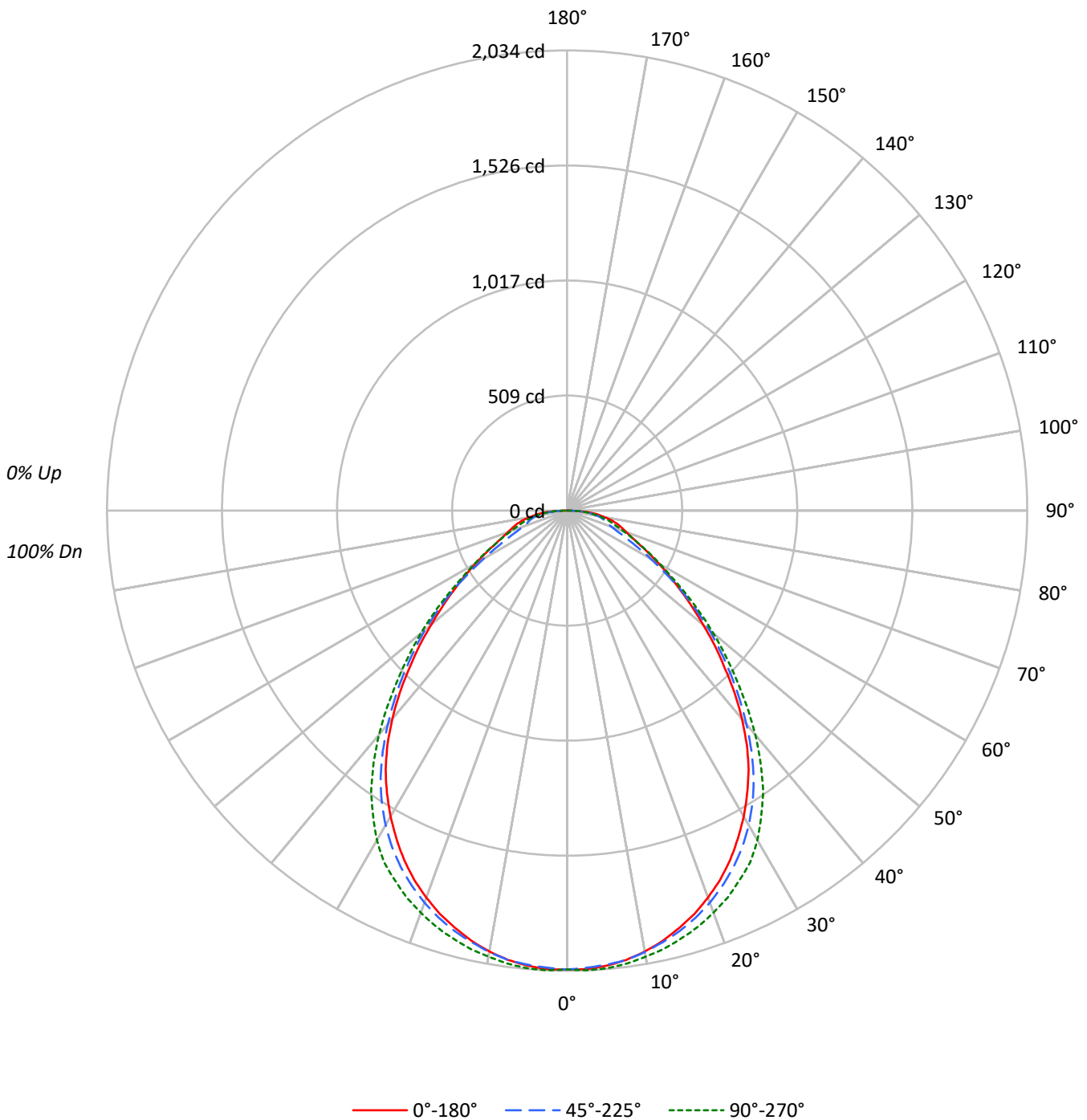
Input Watts (W): 35.805  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5459	5459	5459
5°	5455	5441	5485
10°	5409	5414	5470
15°	5323	5360	5451
20°	5213	5280	5416
25°	5061	5164	5353
30°	4850	4987	5226
35°	4595	4723	4962
40°	4225	4329	4545
45°	3753	3889	4030
50°	3278	3428	3531
55°	2850	2889	2994
60°	2507	2298	2557
65°	2228	1836	2241
70°	2188	1631	2067
75°	2390	1792	2113
80°	2624	2131	2258
85°	3137	2470	2535



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.7	4.4
10°-20°	543.7	12.4
20°-30°	802.7	18.2
30°-40°	898.2	20.4
40°-50°	788.7	17.9
50°-60°	558.1	12.7
60°-70°	324.8	7.4
70°-80°	202.4	4.6
80°-90°	90.6	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°	1538.1	34.9
0°-40°	2436.3	55.4
0°-60°	3783.1	86.0
0°-90°	4401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4401.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2029	2029	2029	2029	2029	
5°	2019	2014	2014	2024	2031	191
15°	1911	1915	1924	1944	1957	538
25°	1704	1712	1739	1780	1803	783
35°	1399	1405	1438	1481	1510	870
45°	986	997	1022	1047	1059	763
55°	608	620	616	627	638	549
65°	350	322	288	314	352	355
75°	230	198	172	176	203	240
85°	102	106	80	78	82	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2028.6	2028.6	2028.6	2028.6	2028.6
2.5°	2028.6	2024.5	2022.5	2029.7	2033.8
5°	2019.4	2014.3	2014.3	2024.5	2030.7
7.5°	2003.0	1997.9	2004.0	2013.3	2019.4
10°	1979.4	1977.3	1981.4	1993.8	2002.0
12.5°	1948.6	1949.6	1953.7	1973.2	1983.5
15°	1910.6	1914.7	1924.0	1944.5	1956.8
17.5°	1869.6	1872.7	1887.0	1910.6	1928.1
20°	1820.3	1826.5	1843.9	1873.7	1891.1
22.5°	1766.0	1773.1	1794.7	1830.6	1852.1
25°	1704.4	1711.6	1739.3	1780.3	1802.9
27.5°	1634.6	1645.9	1676.7	1721.8	1752.6
30°	1560.7	1570.0	1604.9	1656.2	1681.8
32.5°	1481.7	1493.0	1525.8	1575.1	1597.7
35°	1398.6	1404.8	1437.6	1480.7	1510.5
37.5°	1304.2	1307.3	1338.1	1378.1	1404.8
40°	1202.6	1204.7	1232.4	1270.3	1293.9
42.5°	1096.9	1098.0	1127.7	1156.4	1177.0
45°	986.1	997.4	1022.0	1046.6	1059.0
47.5°	886.6	894.8	917.4	938.9	950.2
50°	782.9	803.5	818.8	830.1	843.5
52.5°	693.7	711.1	715.2	728.5	739.8
55°	607.5	619.8	615.7	627.0	638.2
57.5°	534.6	528.5	515.1	534.6	549.0
60°	465.9	449.4	426.9	453.5	475.1
62.5°	404.3	377.6	349.9	376.6	412.5
65°	349.9	322.2	288.3	314.0	352.0
67.5°	308.9	280.1	240.1	265.8	303.7
70°	278.1	248.3	207.3	228.8	262.7
72.5°	253.5	221.6	185.7	200.1	228.8
75°	229.9	198.0	172.4	176.5	203.2
77.5°	202.1	178.5	158.0	156.0	176.5
80°	169.3	162.1	137.5	134.4	145.7
82.5°	139.6	136.5	112.9	109.8	113.9
85°	101.6	105.7	80.0	78.0	82.1
87.5°	53.4	58.5	42.1	44.1	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)