

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: P292355

Luminaire Tested: **22GR-LD5-43-A125-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292355  
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-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: 4593.0 lumens  
Efficiency: N/A  
Efficacy: 124.4 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

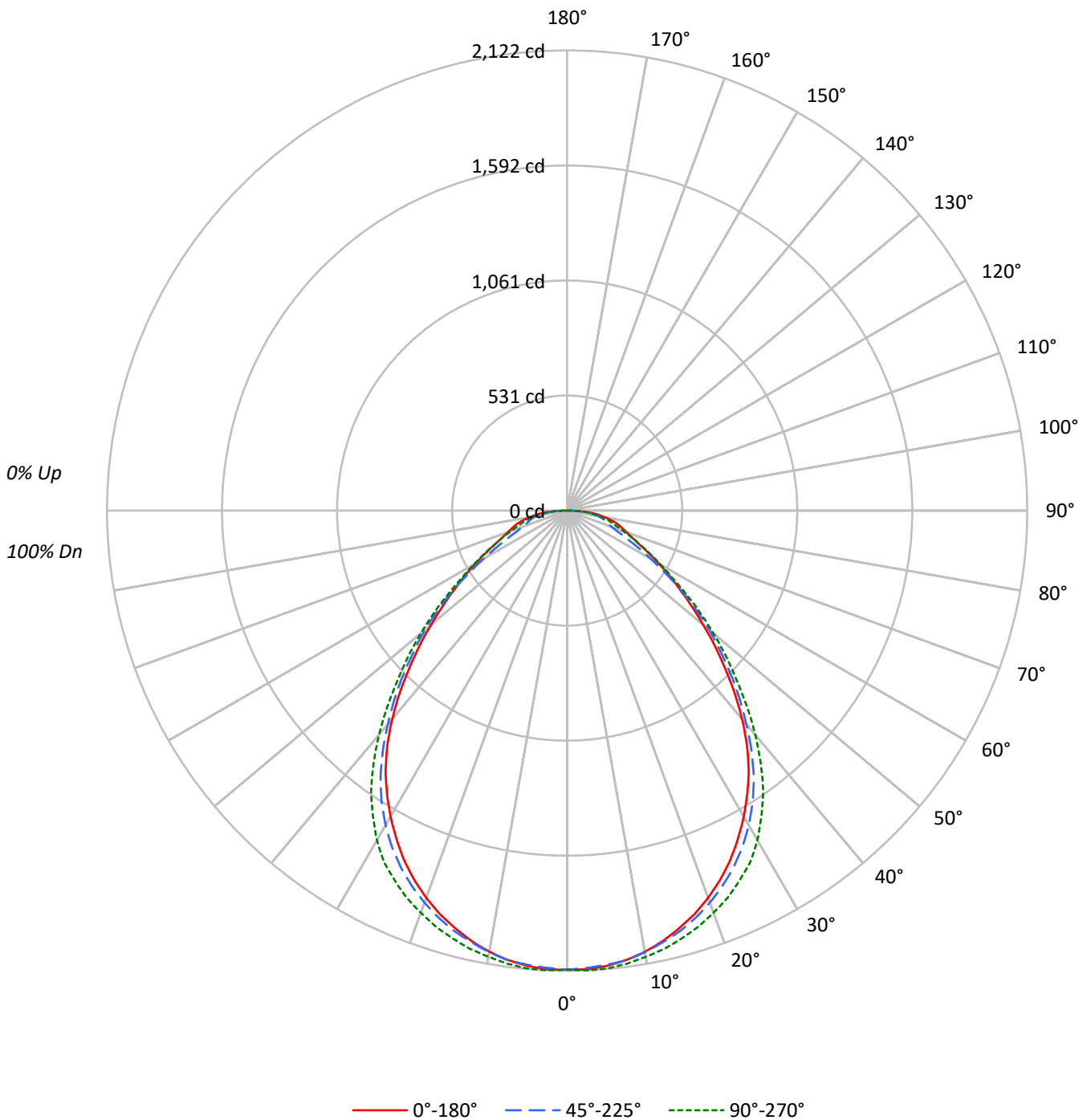
Input Watts (W): 36.921  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5697	5697	5697
5°	5693	5679	5725
10°	5645	5651	5709
15°	5555	5594	5689
20°	5440	5511	5652
25°	5281	5390	5587
30°	5061	5204	5454
35°	4795	4929	5178
40°	4409	4518	4744
45°	3916	4059	4206
50°	3421	3578	3685
55°	2974	3014	3125
60°	2617	2398	2668
65°	2325	1916	2339
70°	2283	1702	2157
75°	2494	1870	2204
80°	2738	2224	2357
85°	3273	2578	2646



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.1	4.4
10°-20°	567.4	12.4
20°-30°	837.7	18.2
30°-40°	937.3	20.4
40°-50°	823.1	17.9
50°-60°	582.4	12.7
60°-70°	339.0	7.4
70°-80°	211.3	4.6
80°-90°	94.5	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°	1605.2	34.9
0°-40°	2542.6	55.4
0°-60°	3948.1	86.0
0°-90°	4593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4593.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2117	2117	2117	2117	2117	
5°	2108	2102	2102	2113	2119	200
15°	1994	1998	2008	2029	2042	562
25°	1779	1786	1815	1858	1882	817
35°	1460	1466	1500	1545	1576	908
45°	1029	1041	1067	1092	1105	796
55°	634	647	642	654	666	573
65°	365	336	301	328	367	370
75°	240	207	180	184	212	251
85°	106	110	84	81	86	108
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2117.1	2117.1	2117.1	2117.1	2117.1
2.5°	2117.1	2112.9	2110.7	2118.2	2122.5
5°	2107.5	2102.2	2102.2	2112.9	2119.3
7.5°	2090.4	2085.0	2091.4	2101.1	2107.5
10°	2065.7	2063.6	2067.9	2080.7	2089.3
12.5°	2033.6	2034.7	2039.0	2059.3	2070.0
15°	1994.0	1998.3	2007.9	2029.3	2042.2
17.5°	1951.2	1954.4	1969.4	1994.0	2012.2
20°	1899.8	1906.2	1924.4	1955.4	1973.6
22.5°	1843.0	1850.5	1873.0	1910.5	1933.0
25°	1778.7	1786.2	1815.2	1858.0	1881.6
27.5°	1705.9	1717.7	1749.8	1796.9	1829.1
30°	1628.8	1638.5	1674.9	1728.4	1755.2
32.5°	1546.4	1558.1	1592.4	1643.8	1667.4
35°	1459.6	1466.0	1500.3	1545.3	1576.3
37.5°	1361.1	1364.3	1396.4	1438.2	1466.0
40°	1255.1	1257.2	1286.1	1325.8	1350.4
42.5°	1144.8	1145.9	1176.9	1206.9	1228.3
45°	1029.1	1040.9	1066.6	1092.3	1105.2
47.5°	925.2	933.8	957.4	979.9	991.6
50°	817.1	838.5	854.6	866.3	880.3
52.5°	723.9	742.1	746.4	760.3	772.1
55°	634.0	646.8	642.5	654.3	666.1
57.5°	557.9	551.5	537.6	557.9	572.9
60°	486.2	469.0	445.5	473.3	495.8
62.5°	421.9	394.1	365.2	393.0	430.5
65°	365.2	336.3	300.9	327.7	367.3
67.5°	322.3	292.4	250.6	277.4	317.0
70°	290.2	259.2	216.3	238.8	274.1
72.5°	264.5	231.3	193.8	208.8	238.8
75°	239.9	206.7	179.9	184.2	212.0
77.5°	211.0	186.3	164.9	162.8	184.2
80°	176.7	169.2	143.5	140.3	152.1
82.5°	145.6	142.4	117.8	114.6	118.9
85°	106.0	110.3	83.5	81.4	85.7
87.5°	55.7	61.0	43.9	46.0	47.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)