

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: P213541

Luminaire Tested: **14GR-LD5-43-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-43-A125-UNV-L950-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4351.6 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

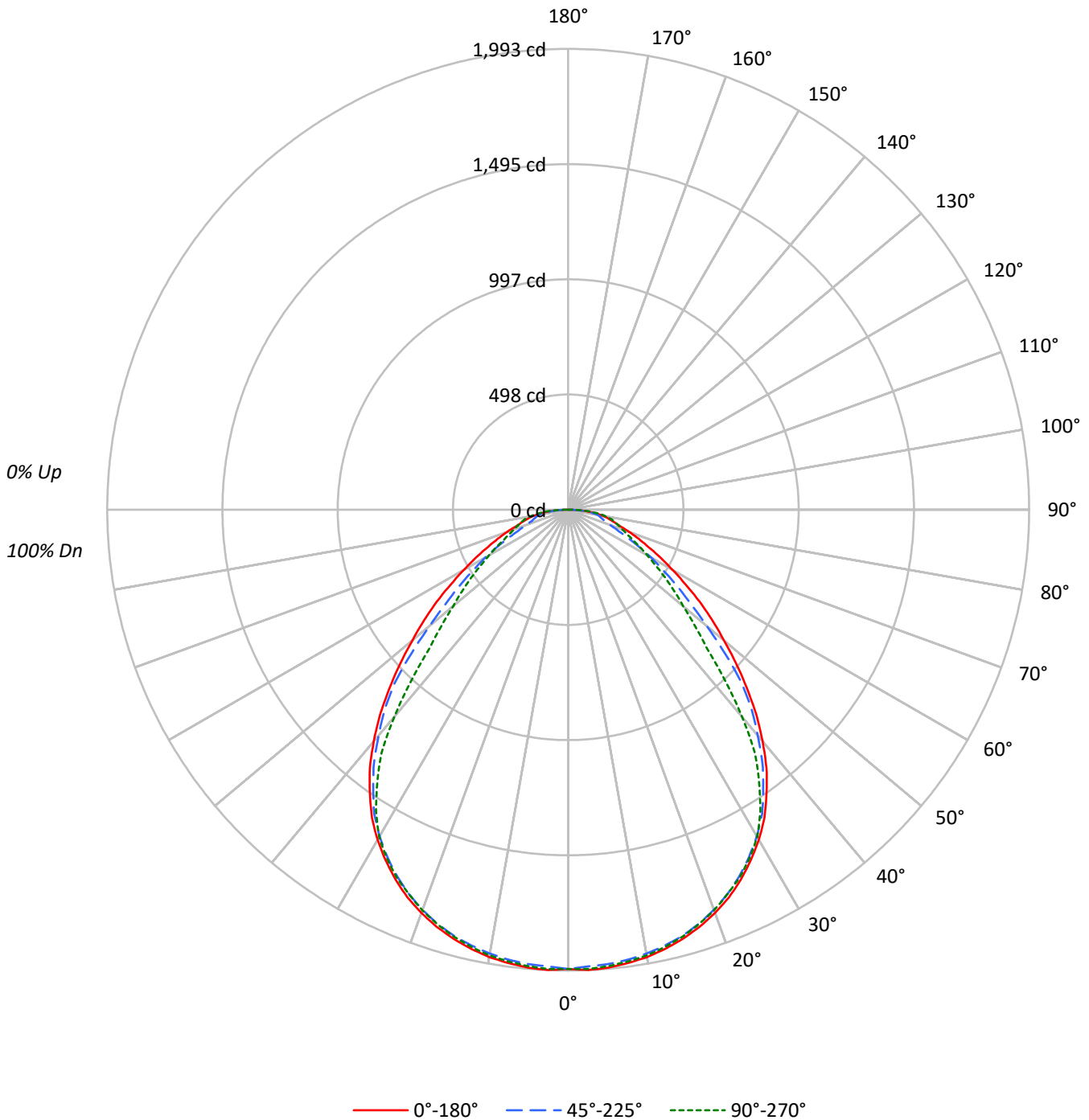
Input Watts (W): 42  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6691	6691	6691
5°	6724	6673	6703
10°	6722	6670	6698
15°	6699	6656	6667
20°	6654	6603	6610
25°	6565	6505	6523
30°	6414	6344	6360
35°	6150	6046	5918
40°	5751	5609	5147
45°	5206	5056	4036
50°	4604	4091	3403
55°	4075	3363	3001
60°	3518	2783	2661
65°	3059	2213	2447
70°	2764	1899	2446
75°	2655	1984	2734
80°	2957	2526	3192
85°	3124	2691	3824



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.4	4.3
10°-20°	539.8	12.4
20°-30°	807.9	18.6
30°-40°	914.5	21.0
40°-50°	779.0	17.9
50°-60°	527.4	12.1
60°-70°	314.9	7.2
70°-80°	196.7	4.5
80°-90°	83.1	1.9
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°	1536.0	35.3
0°-40°	2450.5	56.3
0°-60°	3756.9	86.3
0°-90°	4351.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4351.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1986	1986	1986	1986	1986	
5°	1988	1983	1973	1985	1982	189
15°	1920	1913	1908	1920	1911	542
25°	1766	1761	1750	1758	1755	812
35°	1495	1486	1470	1455	1439	932
45°	1092	1095	1061	904	847	842
55°	694	655	572	511	511	620
65°	384	320	278	297	307	387
75°	204	183	152	200	210	220
85°	81	75	70	88	99	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1985.8	1985.8	1985.8	1985.8	1985.8
2.5°	1992.8	1987.8	1976.7	1989.8	1987.8
5°	1987.8	1982.7	1972.7	1984.8	1981.7
7.5°	1977.7	1972.7	1963.6	1975.7	1970.6
10°	1964.6	1958.5	1949.4	1962.6	1957.5
12.5°	1944.4	1938.3	1930.3	1943.4	1936.3
15°	1920.2	1913.1	1908.1	1920.2	1911.1
17.5°	1890.9	1884.8	1877.8	1889.9	1879.8
20°	1855.6	1850.5	1841.4	1848.5	1843.5
22.5°	1815.2	1808.1	1799.0	1807.1	1800.0
25°	1765.7	1760.7	1749.6	1757.7	1754.6
27.5°	1709.2	1706.2	1693.1	1703.1	1698.1
30°	1648.6	1640.5	1630.4	1633.4	1634.5
32.5°	1578.9	1568.8	1560.7	1553.7	1546.6
35°	1495.1	1486.0	1469.9	1454.7	1438.6
37.5°	1408.3	1396.2	1380.0	1346.7	1326.5
40°	1307.4	1301.3	1275.1	1228.6	1170.1
42.5°	1204.4	1198.4	1175.1	1071.2	1007.6
45°	1092.4	1095.4	1061.1	904.5	847.0
47.5°	985.3	993.4	918.6	772.3	742.0
50°	878.3	887.4	780.4	667.3	649.1
52.5°	784.4	777.3	665.3	585.5	577.5
55°	693.6	655.2	572.4	510.9	510.9
57.5°	600.7	546.2	486.6	447.3	447.3
60°	522.0	454.3	412.9	386.7	394.8
62.5°	449.3	377.6	342.3	337.2	347.3
65°	383.7	320.0	277.6	296.8	306.9
67.5°	330.1	273.5	228.1	268.5	274.6
70°	280.6	238.2	192.8	247.3	248.3
72.5°	235.2	210.0	165.5	224.1	228.1
75°	203.9	182.7	152.4	199.9	210.0
77.5°	178.7	156.5	140.3	172.6	191.8
80°	152.4	128.2	130.2	145.4	164.5
82.5°	117.1	98.9	103.0	119.1	134.2
85°	80.8	74.7	69.6	87.8	98.9
87.5°	43.4	40.4	35.3	49.5	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)