

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: P234070

Luminaire Tested: **14GR-LD5-50-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234070  
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-LD5-50-A125-UNV-L935-CD1-U  
Description: METALUX 1X4 GRLED TROFFER  
WITH A125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4257.7 lumens  
Efficiency: N/A  
Efficacy: 94.4 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

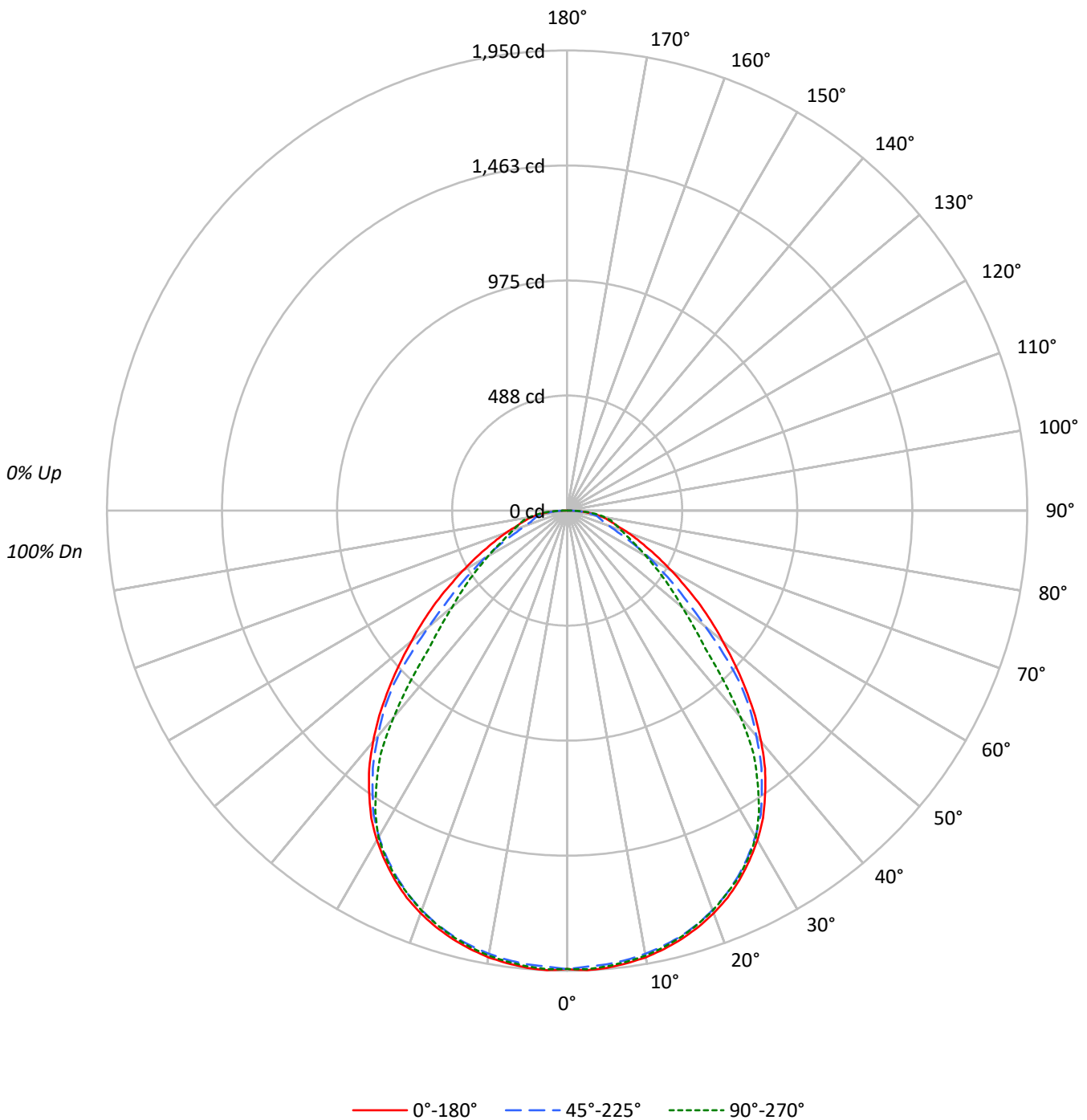
Input Watts (W): 45.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	6547	6547	6547
5°	6579	6528	6558
10°	6577	6526	6553
15°	6554	6513	6523
20°	6510	6461	6467
25°	6423	6364	6383
30°	6276	6207	6222
35°	6017	5916	5790
40°	5627	5487	5036
45°	5093	4947	3949
50°	4505	4003	3329
55°	3987	3290	2936
60°	3442	2723	2603
65°	2993	2166	2394
70°	2705	1859	2394
75°	2597	1942	2674
80°	2895	2472	3124
85°	3054	2637	3742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.3	4.3
10°-20°	528.2	12.4
20°-30°	790.4	18.6
30°-40°	894.7	21.0
40°-50°	762.1	17.9
50°-60°	516.0	12.1
60°-70°	308.1	7.2
70°-80°	192.5	4.5
80°-90°	81.4	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°	1502.8	35.3
0°-40°	2397.6	56.3
0°-60°	3675.7	86.3
0°-90°	4257.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4257.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1943	1943	1943	1943	1943	
5°	1945	1940	1930	1942	1939	185
15°	1879	1872	1867	1879	1870	530
25°	1728	1723	1712	1720	1717	795
35°	1463	1454	1438	1423	1408	912
45°	1069	1072	1038	885	829	824
55°	679	641	560	500	500	607
65°	375	313	272	290	300	378
75°	200	179	149	196	205	215
85°	79	73	68	86	97	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1942.9	1942.9	1942.9	1942.9	1942.9
2.5°	1949.8	1944.9	1934.0	1946.8	1944.9
5°	1944.9	1940.0	1930.1	1941.9	1938.9
7.5°	1935.0	1930.1	1921.2	1933.0	1928.1
10°	1922.2	1916.2	1907.3	1920.2	1915.2
12.5°	1902.4	1896.4	1888.6	1901.4	1894.5
15°	1878.7	1871.8	1866.9	1878.7	1869.8
17.5°	1850.0	1844.2	1837.2	1849.1	1839.1
20°	1815.5	1810.5	1801.7	1808.5	1803.6
22.5°	1776.0	1769.0	1760.2	1768.1	1761.1
25°	1727.5	1722.6	1711.7	1719.6	1716.7
27.5°	1672.3	1669.3	1656.5	1666.3	1661.4
30°	1613.0	1605.1	1595.2	1598.2	1599.2
32.5°	1544.9	1534.9	1527.0	1520.1	1513.3
35°	1462.8	1453.9	1438.2	1423.3	1407.5
37.5°	1377.9	1366.0	1350.2	1317.7	1297.9
40°	1279.2	1273.2	1247.5	1202.1	1144.8
42.5°	1178.4	1172.5	1149.7	1048.0	985.7
45°	1068.7	1071.7	1038.1	885.0	828.8
47.5°	964.1	972.0	898.9	755.6	726.0
50°	859.4	868.2	763.6	652.9	635.1
52.5°	767.5	760.6	650.9	572.9	565.0
55°	678.6	641.1	560.1	499.8	499.8
57.5°	587.7	534.4	476.1	437.6	437.6
60°	510.7	444.5	404.0	378.3	386.2
62.5°	439.5	369.4	334.8	329.9	339.7
65°	375.4	313.1	271.7	290.4	300.3
67.5°	323.0	267.7	223.2	262.7	268.7
70°	274.6	233.1	188.7	242.0	243.0
72.5°	230.2	205.4	162.0	219.3	223.2
75°	199.5	178.8	149.2	195.6	205.4
77.5°	174.8	153.1	137.3	168.9	187.7
80°	149.2	125.5	127.4	142.2	161.0
82.5°	114.6	96.8	100.7	116.5	131.4
85°	79.0	73.1	68.2	85.9	96.8
87.5°	42.5	39.5	34.6	48.4	49.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)