

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: P213457

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

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-43-A-UNV-L950-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH A LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4347.9 lumens  
Efficiency: N/A  
Efficacy: 103.5 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

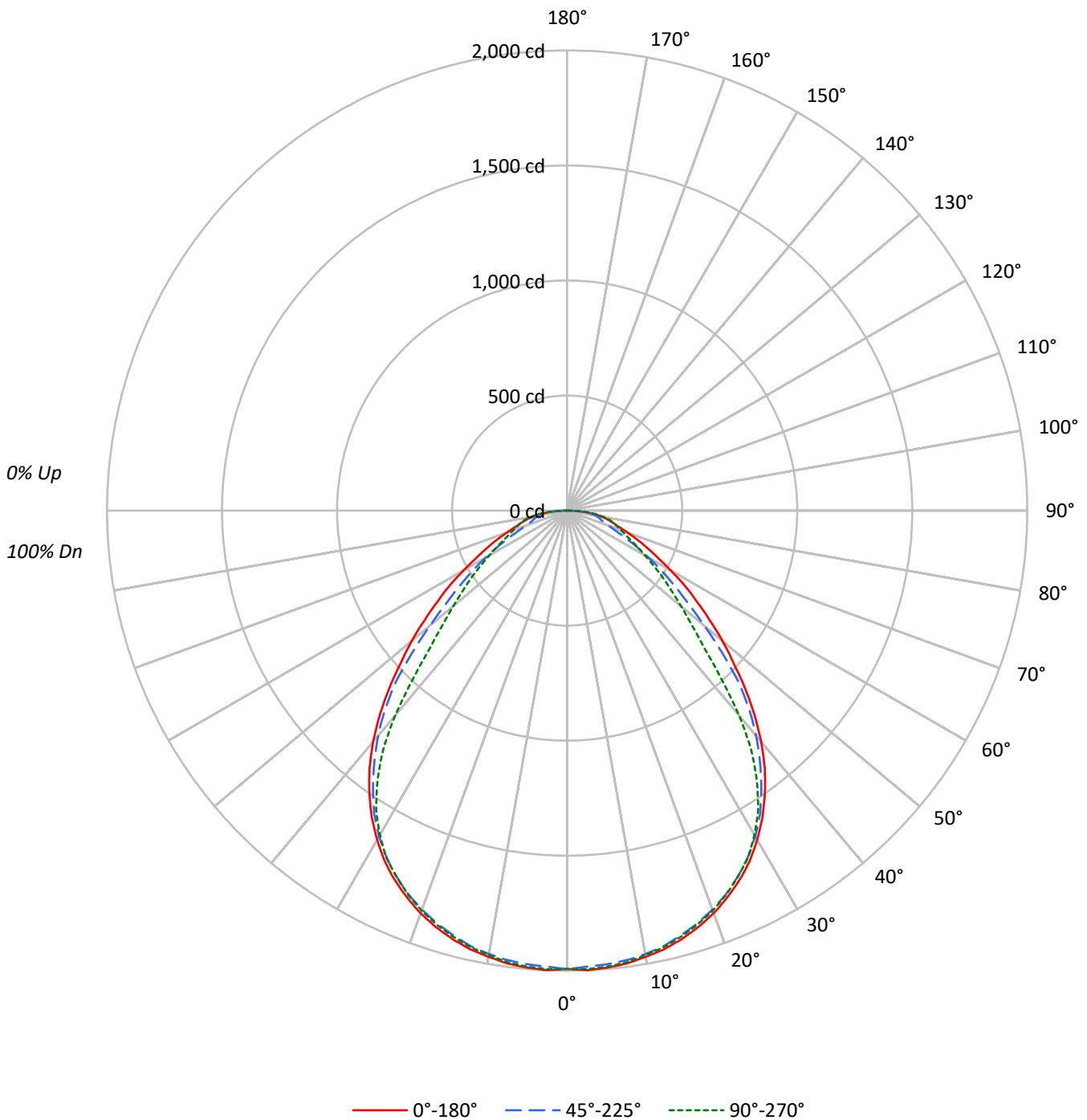
Input Watts (W): 42  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

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

	0°	45°	90°
0°	6714	6714	6714
5°	6746	6695	6729
10°	6738	6696	6713
15°	6725	6665	6686
20°	6677	6616	6634
25°	6589	6525	6529
30°	6428	6361	6334
35°	6164	6053	5916
40°	5770	5624	5117
45°	5211	5014	3999
50°	4621	4071	3383
55°	4034	3340	2984
60°	3498	2750	2634
65°	3067	2206	2431
70°	2736	1870	2447
75°	2669	1972	2734
80°	2959	2488	3136
85°	3085	2656	3669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.0	4.3
10°-20°	541.5	12.5
20°-30°	810.1	18.6
30°-40°	914.5	21.0
40°-50°	775.8	17.8
50°-60°	524.9	12.1
60°-70°	313.3	7.2
70°-80°	196.2	4.5
80°-90°	82.5	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°	1540.7	35.4
0°-40°	2455.2	56.5
0°-60°	3755.9	86.4
0°-90°	4347.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4347.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1994	1988	1979	1993	1989	190
15°	1928	1924	1911	1924	1917	544
25°	1772	1766	1755	1763	1756	815
35°	1499	1488	1471	1458	1438	934
45°	1094	1098	1052	902	839	843
55°	687	654	569	509	508	619
65°	385	319	277	295	305	385
75°	205	183	152	200	210	220
85°	80	76	69	89	95	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1992.4	1992.4	1992.4	1992.4	1992.4
2.5°	1999.5	1993.4	1984.3	1996.4	1995.4
5°	1994.4	1988.4	1979.3	1993.4	1989.4
7.5°	1985.3	1980.3	1971.2	1984.3	1980.3
10°	1969.2	1965.1	1957.1	1968.2	1962.1
12.5°	1952.0	1949.0	1938.9	1949.0	1942.9
15°	1927.8	1923.7	1910.6	1923.7	1916.7
17.5°	1897.5	1892.4	1881.3	1892.4	1886.4
20°	1862.1	1856.1	1845.0	1856.1	1850.0
22.5°	1819.7	1814.7	1804.6	1814.7	1806.6
25°	1772.3	1766.2	1755.1	1763.2	1756.1
27.5°	1717.7	1709.7	1699.6	1705.6	1701.6
30°	1652.1	1642.0	1634.9	1634.9	1627.9
32.5°	1580.4	1573.4	1561.2	1554.2	1545.1
35°	1498.6	1488.5	1471.4	1458.2	1438.1
37.5°	1410.8	1398.7	1377.5	1344.1	1316.9
40°	1311.8	1296.7	1278.5	1212.8	1163.3
42.5°	1205.8	1202.7	1171.4	1059.3	990.6
45°	1093.6	1097.7	1052.2	901.8	839.2
47.5°	980.5	994.7	911.9	764.5	732.2
50°	881.6	886.6	776.6	663.5	645.3
52.5°	779.6	771.5	662.5	583.7	570.6
55°	686.7	654.4	568.6	509.0	508.0
57.5°	604.9	545.4	485.8	441.4	446.4
60°	519.1	452.5	408.0	383.7	390.8
62.5°	443.4	379.7	340.3	333.2	345.3
65°	384.7	319.1	276.7	294.8	304.9
67.5°	329.2	273.6	225.2	268.6	272.6
70°	277.7	237.3	189.8	247.4	248.4
72.5°	235.3	210.0	164.6	224.2	227.2
75°	205.0	182.8	151.5	199.9	210.0
77.5°	179.7	156.5	140.4	172.7	189.8
80°	152.5	126.2	128.2	144.4	161.6
82.5°	117.1	97.9	102.0	119.1	131.3
85°	79.8	75.7	68.7	88.9	94.9
87.5°	42.4	40.4	35.3	50.5	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)