

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: P234062

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

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234062  
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-LD5-50-A-UNV-L935-CD1-U  
Description: METALUX 1X4 GRLED TROFFER  
WITH A LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4253.4 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

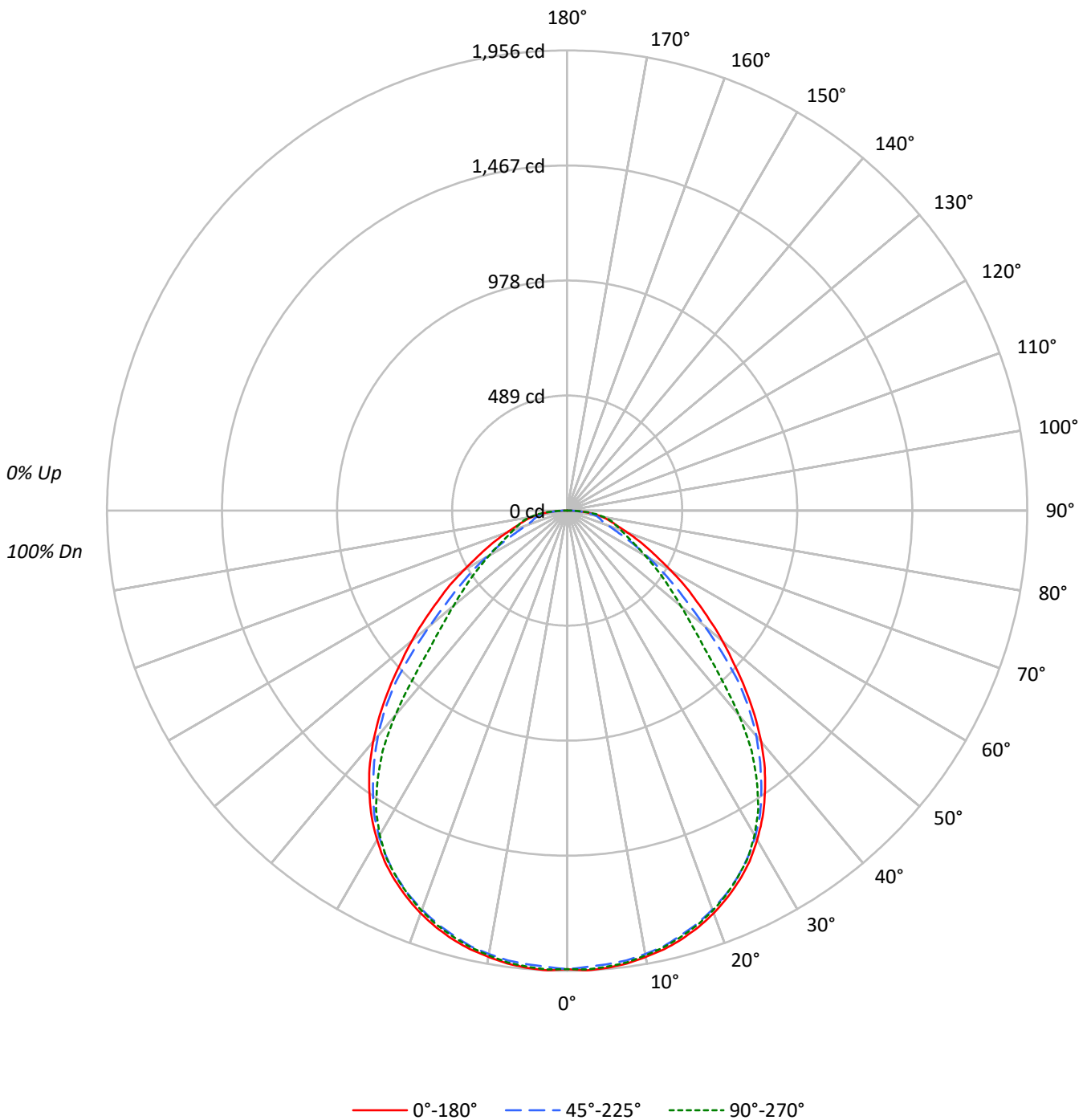
Input Watts (W): 45.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30					30			

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

	0°	45°	90°
0°	6568	6568	6568
5°	6599	6549	6583
10°	6591	6551	6568
15°	6579	6520	6541
20°	6532	6472	6490
25°	6446	6383	6387
30°	6288	6223	6196
35°	6030	5921	5787
40°	5644	5501	5006
45°	5098	4905	3912
50°	4521	3982	3309
55°	3947	3267	2919
60°	3422	2690	2576
65°	3001	2158	2378
70°	2677	1830	2394
75°	2610	1929	2674
80°	2895	2435	3068
85°	3016	2594	3588



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.9	4.3
10°-20°	529.8	12.5
20°-30°	792.5	18.6
30°-40°	894.6	21.0
40°-50°	758.9	17.8
50°-60°	513.5	12.1
60°-70°	306.5	7.2
70°-80°	191.9	4.5
80°-90°	80.7	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°	1507.2	35.4
0°-40°	2401.8	56.5
0°-60°	3674.2	86.4
0°-90°	4253.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4253.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1949	1949	1949	1949	1949	
5°	1951	1945	1936	1950	1946	185
15°	1886	1882	1869	1882	1875	532
25°	1734	1728	1717	1725	1718	797
35°	1466	1456	1439	1426	1407	913
45°	1070	1074	1029	882	821	824
55°	672	640	556	498	497	605
65°	376	312	271	288	298	376
75°	200	179	148	196	205	216
85°	78	74	67	87	93	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1949.1	1949.1	1949.1	1949.1	1949.1
2.5°	1956.0	1950.1	1941.2	1953.0	1952.0
5°	1951.1	1945.1	1936.2	1950.1	1946.2
7.5°	1942.2	1937.2	1928.3	1941.2	1937.2
10°	1926.4	1922.4	1914.5	1925.4	1919.5
12.5°	1909.6	1906.6	1896.8	1906.6	1900.7
15°	1885.9	1881.9	1869.1	1881.9	1875.0
17.5°	1856.2	1851.3	1840.4	1851.3	1845.4
20°	1821.6	1815.8	1804.9	1815.8	1809.8
22.5°	1780.2	1775.2	1765.4	1775.2	1767.3
25°	1733.7	1727.8	1716.9	1724.8	1717.9
27.5°	1680.4	1672.5	1662.6	1668.6	1664.6
30°	1616.2	1606.3	1599.4	1599.4	1592.5
32.5°	1546.1	1539.1	1527.3	1520.4	1511.5
35°	1466.0	1456.1	1439.4	1426.5	1406.8
37.5°	1380.1	1368.2	1347.5	1314.9	1288.2
40°	1283.2	1268.5	1250.7	1186.4	1138.1
42.5°	1179.5	1176.6	1146.0	1036.3	969.1
45°	1069.9	1073.8	1029.4	882.2	820.9
47.5°	959.2	973.1	892.1	747.8	716.2
50°	862.4	867.3	759.6	649.1	631.3
52.5°	762.6	754.7	648.0	571.0	558.2
55°	671.8	640.1	556.2	497.9	496.9
57.5°	591.8	533.5	475.2	431.7	436.6
60°	507.8	442.6	399.1	375.4	382.3
62.5°	433.7	371.4	332.9	326.0	337.9
65°	376.4	312.2	270.6	288.5	298.3
67.5°	322.1	267.8	220.3	262.7	266.7
70°	271.7	232.1	185.7	242.0	243.0
72.5°	230.2	205.4	161.0	219.3	222.3
75°	200.5	178.8	148.2	195.6	205.4
77.5°	175.9	153.1	137.3	168.9	185.7
80°	149.2	123.5	125.5	141.3	158.1
82.5°	114.6	95.8	99.8	116.5	128.4
85°	78.0	74.1	67.1	87.0	92.8
87.5°	41.5	39.5	34.6	49.4	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)