

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: P213583

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-43-A19/156-UNV-L935-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3540.3 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

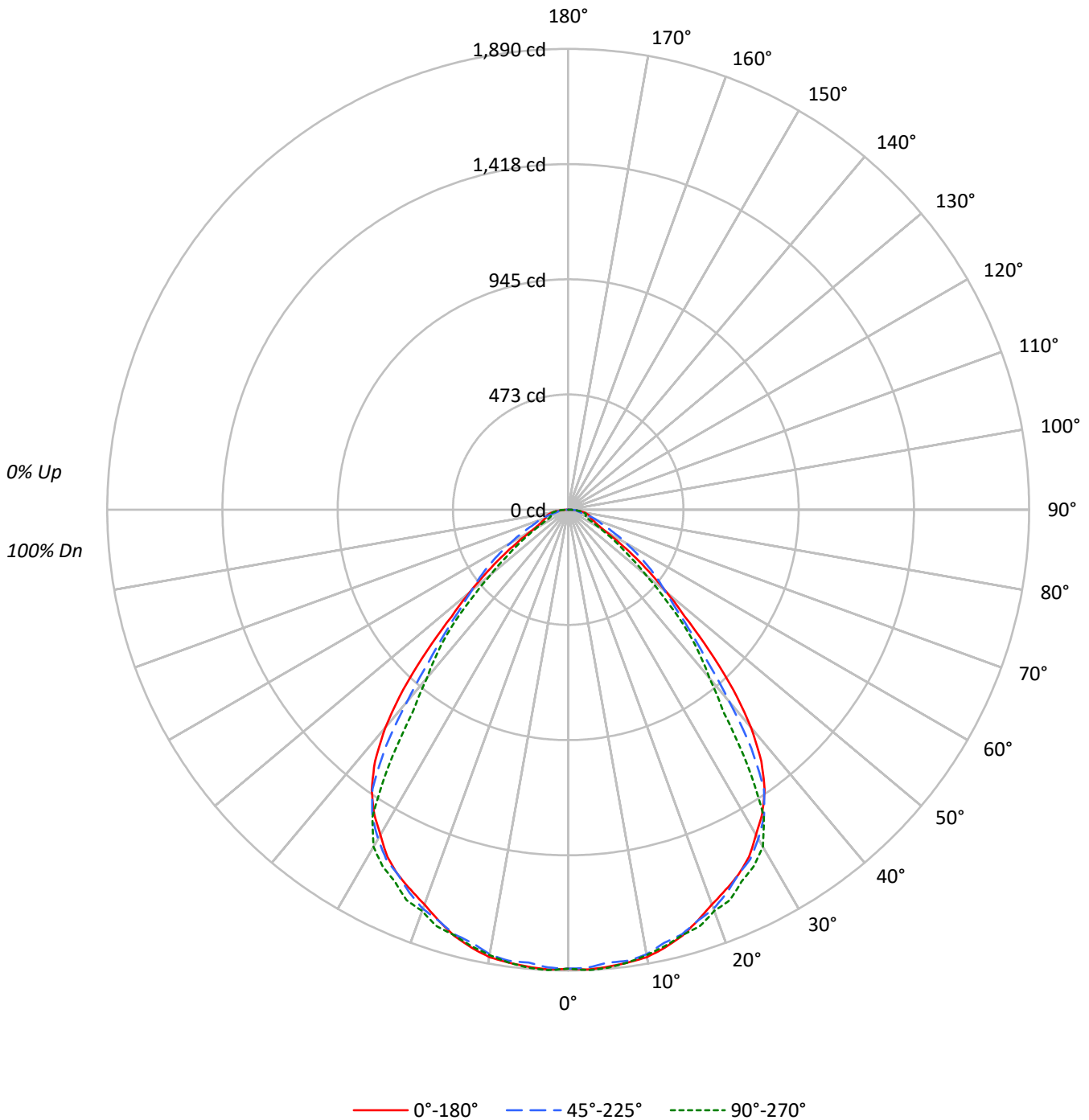
Input Watts (W): 42  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90					88				
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79					77				
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70					68				
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63					61				
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56					54				
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51					49				
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46					44				
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42					40				
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38					37				
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35					34				

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

	0°	45°	90°
0°	6344	6344	6344
5°	6365	6305	6379
10°	6375	6336	6347
15°	6310	6287	6302
20°	6178	6245	6280
25°	6141	6138	6255
30°	5991	6064	6212
35°	5777	5754	5287
40°	5130	4527	3964
45°	3892	3387	3205
50°	2761	2711	2175
55°	1890	2314	1495
60°	1169	1847	999
65°	963	1422	724
70°	958	1237	743
75°	1150	887	992
80°	1321	819	1242
85°	1253	1442	1411



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.6	5.0
10°-20°	509.8	14.4
20°-30°	766.7	21.7
30°-40°	835.8	23.6
40°-50°	585.2	16.5
50°-60°	331.3	9.4
60°-70°	181.3	5.1
70°-80°	109.9	3.1
80°-90°	41.7	1.2
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°	1455.1	41.1
0°-40°	2290.9	64.7
0°-60°	3207.5	90.6
0°-90°	3540.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3540.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1883	1883	1883	1883	1883	
5°	1882	1878	1864	1886	1886	179
15°	1809	1804	1802	1828	1806	509
25°	1652	1655	1651	1689	1682	759
35°	1404	1398	1399	1327	1285	865
45°	817	853	711	702	673	634
55°	322	385	394	391	254	294
65°	121	199	178	225	91	124
75°	88	127	68	134	76	92
85°	32	53	37	45	36	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1882.6	1882.6	1882.6	1882.6	1882.6
2.5°	1887.4	1885.0	1879.4	1890.7	1889.9
5°	1881.7	1878.5	1864.0	1885.8	1885.8
7.5°	1873.7	1865.6	1866.3	1878.5	1872.8
10°	1863.1	1849.3	1851.8	1855.0	1855.0
12.5°	1838.8	1825.8	1819.3	1829.9	1833.1
15°	1808.8	1804.0	1802.3	1828.3	1806.4
17.5°	1766.6	1777.2	1767.5	1788.6	1791.8
20°	1723.0	1743.2	1741.6	1756.2	1751.3
22.5°	1687.2	1700.3	1700.3	1718.0	1732.6
25°	1651.6	1654.9	1650.8	1688.9	1682.4
27.5°	1605.4	1603.0	1615.9	1635.4	1648.3
30°	1539.8	1540.5	1558.4	1584.3	1596.5
32.5°	1479.8	1472.5	1494.4	1505.7	1492.8
35°	1404.5	1397.9	1398.8	1327.4	1285.3
37.5°	1301.5	1307.2	1232.6	1102.1	1047.0
40°	1166.2	1177.5	1029.2	931.9	901.2
42.5°	1002.5	1005.7	843.6	812.0	791.8
45°	816.8	852.6	710.7	701.8	672.6
47.5°	647.5	714.0	595.7	601.3	531.6
50°	526.7	593.2	517.1	519.4	414.9
52.5°	416.6	481.4	456.3	449.0	325.8
55°	321.7	385.0	393.9	390.6	254.5
57.5°	236.6	304.7	330.6	342.8	196.1
60°	173.4	248.8	274.0	298.3	148.3
62.5°	137.8	215.6	224.5	260.1	115.1
65°	120.8	198.6	178.3	225.2	90.8
67.5°	107.8	188.8	145.1	199.3	79.4
70°	97.2	170.2	125.6	178.3	75.4
72.5°	97.2	149.1	98.9	158.0	76.2
75°	88.3	127.2	68.1	133.7	76.2
77.5°	78.6	108.6	51.1	108.6	71.3
80°	68.1	85.1	42.2	83.5	64.0
82.5°	50.2	64.0	36.5	62.4	51.8
85°	32.4	52.7	37.3	45.4	36.5
87.5°	15.4	26.8	23.5	22.7	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)