

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: P225848

Luminaire Tested: **14GR-LD5-36-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225848  
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-LD5-36-A19/156-UNV-L950-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3303.3 lumens  
Efficiency: N/A  
Efficacy: 94.4 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

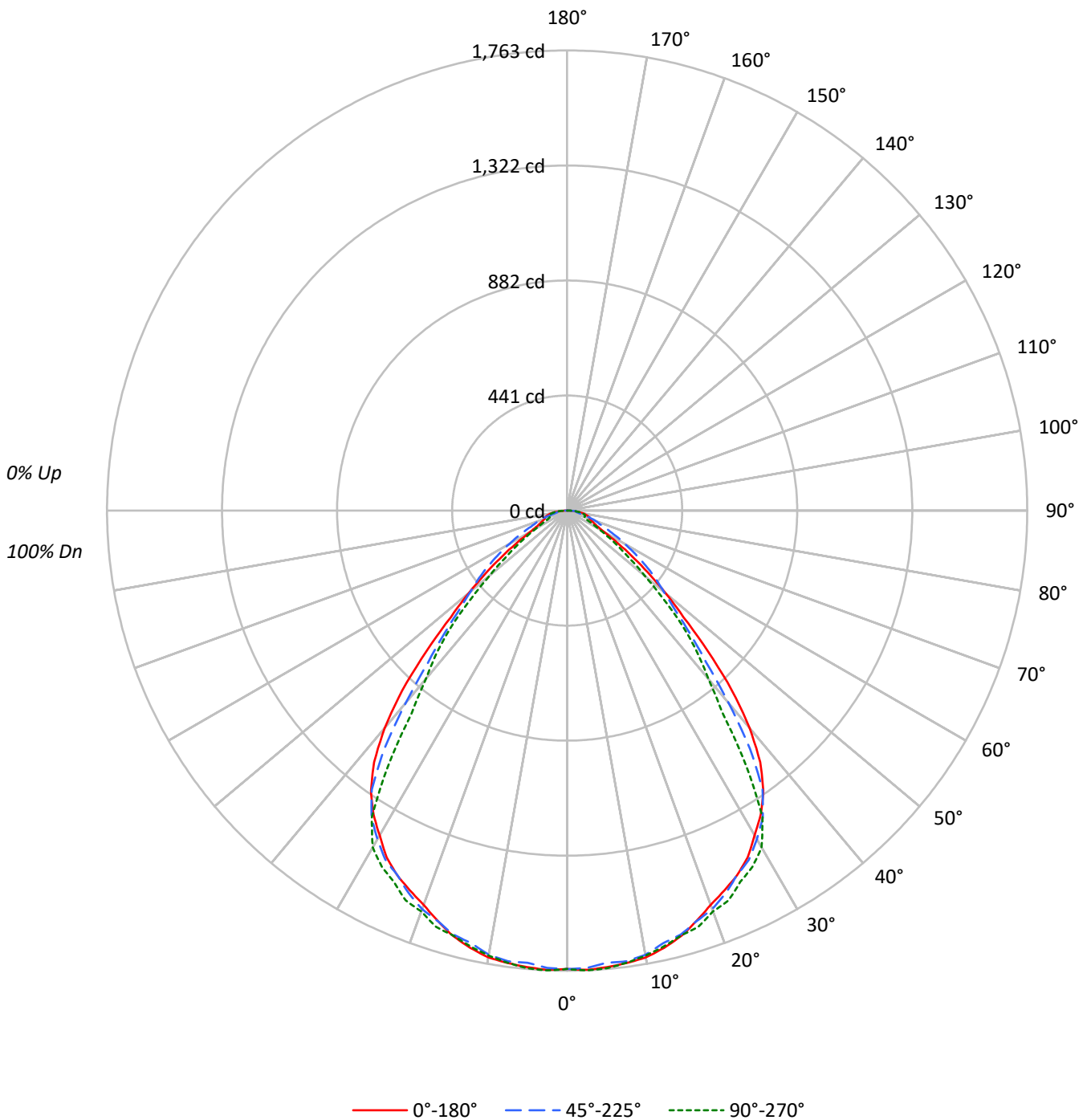
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225848

CATALOG NUMBER: 14GR-LD5-36-A19/156-UNV-L950-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P225848

CATALOG NUMBER: 14GR-LD5-36-A19/156-UNV-L950-CD1-U

**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°	5919	5919	5919
5°	5939	5883	5952
10°	5948	5912	5922
15°	5888	5867	5880
20°	5765	5827	5860
25°	5730	5727	5836
30°	5590	5658	5796
35°	5390	5369	4933
40°	4786	4224	3698
45°	3632	3160	2991
50°	2577	2529	2029
55°	1764	2159	1395
60°	1090	1723	933
65°	899	1326	675
70°	894	1155	693
75°	1073	827	926
80°	1232	763	1158
85°	1168	1345	1314



TEST NUMBER: P225848

CATALOG NUMBER: 14GR-LD5-36-A19/156-UNV-L950-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.7	5.0
10°-20°	475.7	14.4
20°-30°	715.4	21.7
30°-40°	779.9	23.6
40°-50°	546.1	16.5
50°-60°	309.1	9.4
60°-70°	169.1	5.1
70°-80°	102.5	3.1
80°-90°	38.8	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°	1357.7	41.1
0°-40°	2137.6	64.7
0°-60°	2992.8	90.6
0°-90°	3303.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3303.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1757	1757	1757	1757	1757	
5°	1756	1753	1739	1760	1760	167
15°	1688	1683	1682	1706	1686	475
25°	1541	1544	1540	1576	1570	708
35°	1310	1304	1305	1239	1199	807
45°	762	796	663	655	628	592
55°	300	359	368	364	237	274
65°	113	185	166	210	85	116
75°	82	119	64	125	71	85
85°	30	49	35	42	34	34
90°	0	0	0	0	0	



TEST NUMBER: P225848

CATALOG NUMBER: 14GR-LD5-36-A19/156-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1756.6	1756.6	1756.6	1756.6	1756.6
2.5°	1761.1	1758.8	1753.6	1764.1	1763.4
5°	1755.8	1752.8	1739.2	1759.6	1759.6
7.5°	1748.3	1740.6	1741.5	1752.8	1747.5
10°	1738.5	1725.5	1727.8	1730.8	1730.8
12.5°	1715.7	1703.6	1697.6	1707.4	1710.4
15°	1687.8	1683.2	1681.7	1705.9	1685.5
17.5°	1648.5	1658.3	1649.2	1668.8	1671.9
20°	1607.6	1626.5	1625.0	1638.6	1634.1
22.5°	1574.3	1586.4	1586.4	1603.1	1616.7
25°	1541.1	1544.1	1540.3	1575.8	1569.8
27.5°	1498.0	1495.7	1507.8	1526.0	1538.0
30°	1436.7	1437.4	1454.1	1478.3	1489.7
32.5°	1380.7	1373.9	1394.4	1404.9	1392.8
35°	1310.4	1304.4	1305.1	1238.6	1199.3
37.5°	1214.4	1219.7	1150.1	1028.4	977.0
40°	1088.1	1098.7	960.3	869.6	840.8
42.5°	935.4	938.4	787.2	757.7	738.7
45°	762.2	795.5	663.1	654.8	627.6
47.5°	604.1	666.2	555.7	561.1	496.0
50°	491.5	553.6	482.4	484.7	387.1
52.5°	388.7	449.2	425.7	418.9	303.9
55°	300.2	359.2	367.5	364.5	237.4
57.5°	220.8	284.3	308.5	319.9	183.0
60°	161.8	232.1	255.6	278.3	138.4
62.5°	128.6	201.1	209.5	242.7	107.4
65°	112.7	185.3	166.3	210.2	84.7
67.5°	100.6	176.2	135.3	186.0	74.1
70°	90.7	158.8	117.2	166.3	70.3
72.5°	90.7	139.1	92.3	147.4	71.1
75°	82.4	118.8	63.5	124.8	71.1
77.5°	73.3	101.3	47.6	101.3	66.5
80°	63.5	79.4	39.3	77.9	59.7
82.5°	46.9	59.7	34.0	58.2	48.4
85°	30.2	49.1	34.8	42.3	34.0
87.5°	14.4	24.9	21.9	21.2	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)