

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: P219252

Luminaire Tested: **24GR-LD5-42-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219252  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-42-A19/156-UNV-L950-CD1-U  
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3867.5 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

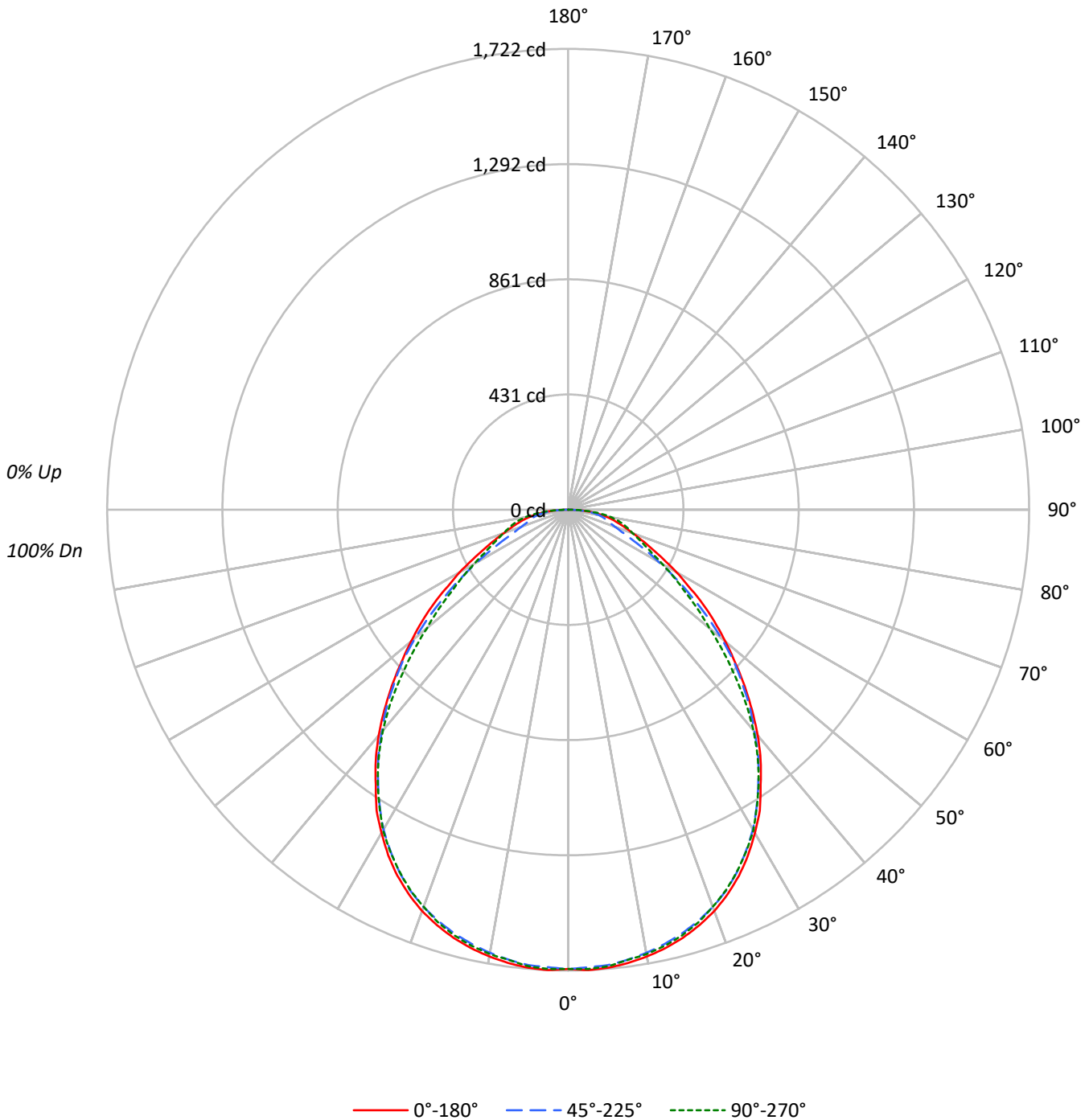
Input Watts (W): 34.617  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

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

	0°	45°	90°
0°	2628	2628	2628
5°	2641	2626	2633
10°	2636	2615	2622
15°	2626	2600	2611
20°	2601	2575	2574
25°	2550	2523	2521
30°	2466	2441	2446
35°	2343	2316	2319
40°	2203	2165	2152
45°	2019	1992	1913
50°	1825	1775	1642
55°	1638	1492	1415
60°	1435	1200	1245
65°	1251	944	1145
70°	1145	824	1145
75°	1146	876	1262
80°	1244	1033	1439
85°	1365	1165	1543



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.5	4.2
10°-20°	463.7	12.0
20°-30°	687.6	17.8
30°-40°	775.7	20.1
40°-50°	702.6	18.2
50°-60°	506.9	13.1
60°-70°	302.6	7.8
70°-80°	187.0	4.8
80°-90°	78.8	2.0
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°	1313.9	34.0
0°-40°	2089.6	54.0
0°-60°	3299.1	85.3
0°-90°	3867.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3867.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1718	1715	1708	1706	1712	163
15°	1656	1646	1640	1640	1647	467
25°	1509	1501	1493	1488	1492	693
35°	1253	1251	1239	1239	1240	784
45°	932	926	920	897	883	718
55°	614	594	559	531	530	548
65°	345	304	260	296	316	347
75°	194	168	148	185	213	207
85°	78	68	66	87	88	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1716.0	1716.0	1716.0	1716.0	1716.0
2.5°	1722.0	1717.2	1711.3	1714.8	1717.8
5°	1717.8	1715.4	1708.3	1706.4	1712.4
7.5°	1708.8	1702.9	1696.2	1699.2	1696.9
10°	1695.1	1689.7	1681.3	1682.0	1686.1
12.5°	1678.3	1671.8	1662.8	1665.2	1668.8
15°	1656.2	1646.1	1639.5	1640.1	1646.6
17.5°	1628.2	1620.4	1612.1	1613.8	1616.8
20°	1595.9	1591.7	1579.8	1576.2	1579.1
22.5°	1555.3	1547.5	1540.9	1539.2	1539.7
25°	1509.2	1500.9	1493.1	1487.8	1491.9
27.5°	1455.5	1448.4	1438.2	1436.3	1440.0
30°	1394.6	1389.2	1380.2	1377.8	1383.2
32.5°	1332.4	1323.4	1310.9	1310.9	1312.1
35°	1253.0	1251.2	1238.6	1239.2	1240.4
37.5°	1181.3	1172.9	1165.7	1158.5	1162.2
40°	1101.7	1092.2	1082.6	1077.9	1076.1
42.5°	1016.3	1009.2	1005.0	987.6	983.4
45°	932.1	926.1	919.6	896.8	883.1
47.5°	846.0	844.8	839.5	799.4	785.7
50°	765.9	764.2	745.1	702.6	688.9
52.5°	690.1	678.1	653.0	611.2	608.9
55°	613.6	594.5	558.6	531.2	530.0
57.5°	533.0	510.2	473.8	458.9	466.6
60°	468.5	433.8	391.9	393.8	406.3
62.5°	401.5	362.6	321.4	339.3	354.4
65°	345.3	304.1	260.5	295.8	316.0
67.5°	296.4	258.1	216.3	263.5	283.2
70°	255.7	224.7	184.0	233.6	255.7
72.5°	223.5	194.7	163.1	209.8	235.4
75°	193.6	167.9	148.1	184.6	213.3
77.5°	167.9	142.8	133.9	163.1	191.2
80°	141.0	118.3	117.1	142.2	163.1
82.5°	109.9	94.4	94.4	118.9	131.4
85°	77.7	68.2	66.3	86.6	87.8
87.5°	40.0	38.2	34.7	45.4	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)