

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: P219223

Luminaire Tested: **24GR-LD5-48-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219223
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-LD5-48-A19/156-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3988.3 lumens
Efficiency: N/A
Efficacy: 106.4 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

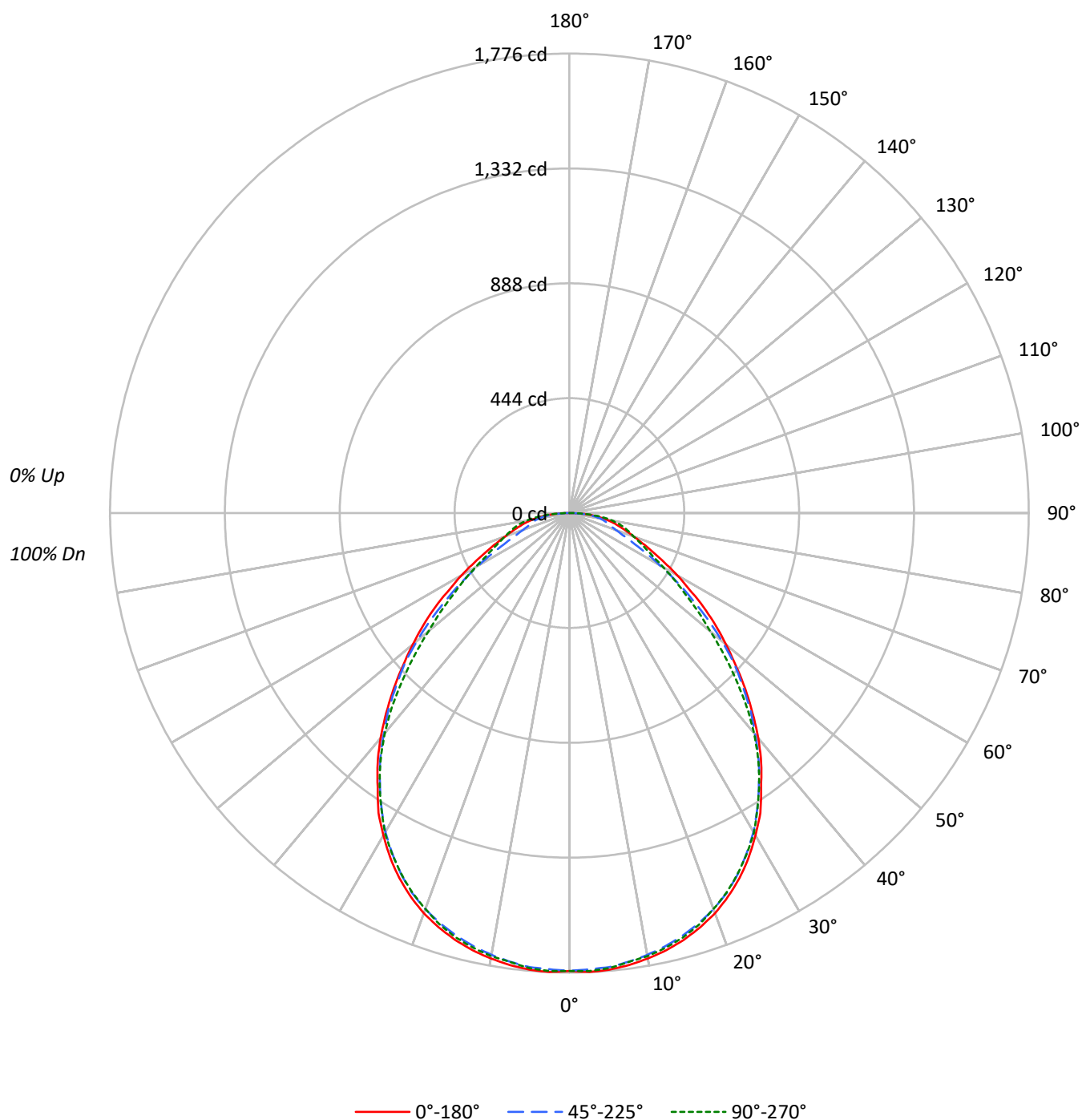
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69	90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46	72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2710	2710	2710
5°	2723	2708	2715
10°	2719	2696	2704
15°	2708	2681	2693
20°	2683	2655	2654
25°	2630	2602	2600
30°	2543	2517	2523
35°	2416	2388	2392
40°	2272	2232	2219
45°	2082	2054	1973
50°	1882	1831	1693
55°	1690	1538	1460
60°	1480	1238	1284
65°	1291	973	1181
70°	1181	850	1181
75°	1182	904	1302
80°	1282	1065	1484
85°	1408	1202	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	4.2
10°-20°	478.2	12.0
20°-30°	709.1	17.8
30°-40°	800.0	20.1
40°-50°	724.5	18.2
50°-60°	522.7	13.1
60°-70°	312.1	7.8
70°-80°	192.9	4.8
80°-90°	81.3	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°	1354.9	34.0
0°-40°	2154.9	54.0
0°-60°	3402.1	85.3
0°-90°	3988.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3988.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1771	1769	1762	1760	1766	168
15°	1708	1697	1691	1691	1698	481
25°	1556	1548	1540	1534	1538	715
35°	1292	1290	1277	1278	1279	808
45°	961	955	948	925	911	741
55°	633	613	576	548	547	565
65°	356	314	269	305	326	358
75°	200	173	153	190	220	213
85°	80	70	68	89	91	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1769.6	1769.6	1769.6	1769.6	1769.6
2.5°	1775.7	1770.8	1764.7	1768.3	1771.4
5°	1771.4	1768.9	1761.5	1759.8	1765.9
7.5°	1762.2	1756.0	1749.2	1752.4	1749.9
10°	1748.0	1742.5	1733.8	1734.4	1738.8
12.5°	1730.8	1724.0	1714.7	1717.2	1720.9
15°	1708.0	1697.4	1690.7	1691.3	1698.1
17.5°	1679.0	1671.0	1662.3	1664.2	1667.3
20°	1645.8	1641.4	1629.1	1625.4	1628.5
22.5°	1603.9	1595.8	1589.1	1587.2	1587.8
25°	1556.4	1547.8	1539.8	1534.2	1538.5
27.5°	1500.9	1493.5	1483.1	1481.2	1485.0
30°	1438.1	1432.5	1423.3	1420.9	1426.4
32.5°	1374.0	1364.8	1351.8	1351.8	1353.0
35°	1292.1	1290.2	1277.3	1277.9	1279.1
37.5°	1218.1	1209.5	1202.1	1194.7	1198.4
40°	1136.2	1126.3	1116.5	1111.5	1109.7
42.5°	1048.0	1040.7	1036.3	1018.5	1014.2
45°	961.2	955.1	948.3	924.8	910.7
47.5°	872.4	871.2	865.7	824.4	810.2
50°	789.9	788.0	768.3	724.6	710.4
52.5°	711.6	699.3	673.5	630.4	627.9
55°	632.8	613.1	576.1	547.7	546.6
57.5°	549.6	526.2	488.6	473.2	481.2
60°	483.1	447.4	404.2	406.0	419.0
62.5°	414.0	374.0	331.5	349.9	365.4
65°	356.2	313.6	268.6	305.0	326.0
67.5°	305.6	266.1	223.0	271.7	292.1
70°	263.7	231.7	189.8	240.9	263.7
72.5°	230.4	200.9	168.2	216.2	242.8
75°	199.7	173.1	152.8	190.4	220.0
77.5°	173.1	147.2	138.0	168.2	197.2
80°	145.4	122.0	120.8	146.6	168.2
82.5°	113.4	97.3	97.3	122.7	135.6
85°	80.1	70.2	68.4	89.3	90.6
87.5°	41.3	39.4	35.7	46.8	46.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)