

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: P234141

Luminaire Tested: **22GR-LD5-50-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A19/156-UNV-L930-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3828.5 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

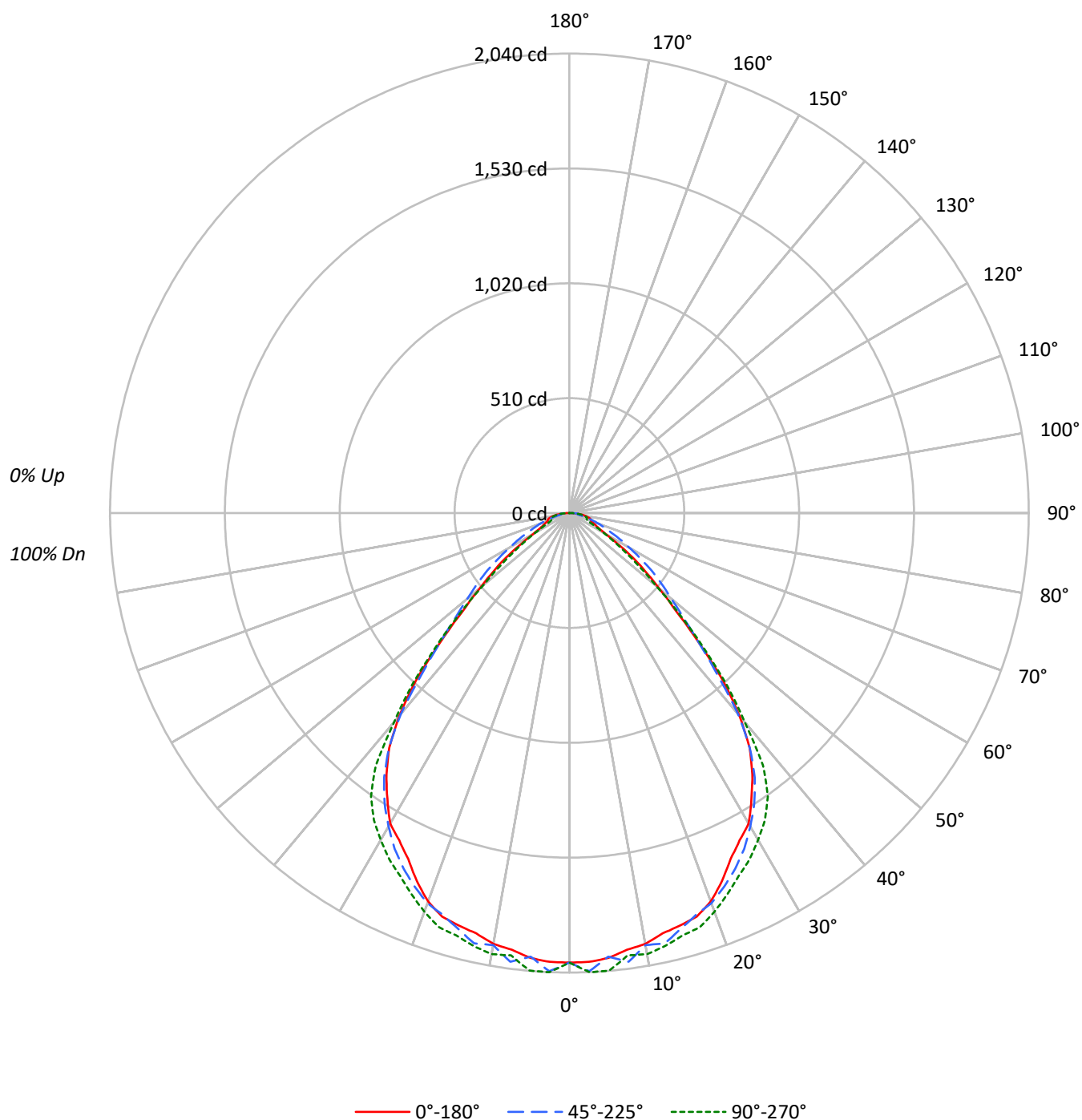
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	105	102	99	101	98	96		97	95	93		88
2	103	96	90	85	100	94	89	85	91	86	83		88	84	81		77
3	95	86	79	74	93	85	79	73	82	77	72		79	75	71		68
4	88	78	71	65	86	77	70	64	75	68	64		72	67	63		60
5	82	71	63	58	80	70	63	57	68	62	57		66	61	56		54
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		36
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6390	6390	6390
5°	6374	6354	6554
10°	6315	6333	6465
15°	6286	6334	6436
20°	6253	6284	6419
25°	5986	6155	6282
30°	5887	5941	6194
35°	5537	5607	6006
40°	4906	4872	5064
45°	3664	3673	3774
50°	2579	2935	2499
55°	1904	2478	1707
60°	1190	1959	1115
65°	971	1552	779
70°	963	1292	769
75°	1194	949	994
80°	1332	749	1214
85°	1326	1393	1360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	5.0
10°-20°	541.0	14.1
20°-30°	801.3	20.9
30°-40°	897.6	23.4
40°-50°	659.5	17.2
50°-60°	368.6	9.6
60°-70°	205.5	5.4
70°-80°	120.7	3.2
80°-90°	44.4	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°	1532.3	40.0
0°-40°	2429.8	63.5
0°-60°	3457.9	90.3
0°-90°	3828.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3828.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1995	1995	1995	1995	1995	
5°	1983	2020	1976	2017	2039	188
15°	1896	1908	1910	1939	1941	536
25°	1694	1708	1742	1766	1778	785
35°	1416	1417	1434	1499	1536	877
45°	809	875	811	869	833	632
55°	341	415	444	443	306	304
65°	128	227	205	262	103	132
75°	96	136	77	154	80	97
85°	36	53	38	49	37	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1995.3	1995.3	1995.3	1995.3	1995.3
2.5°	1994.4	2012.4	2035.9	2038.6	2040.4
5°	1982.7	2019.7	1976.4	2017.0	2038.6
7.5°	1955.6	1978.2	2009.7	1969.1	1980.9
10°	1942.1	1947.5	1947.5	1998.0	1988.1
12.5°	1911.4	1947.5	1956.5	1946.6	1968.2
15°	1896.1	1907.8	1910.5	1939.4	1941.2
17.5°	1878.9	1876.2	1869.9	1890.7	1927.7
20°	1834.8	1824.8	1843.8	1869.0	1883.5
22.5°	1769.8	1772.5	1795.1	1815.8	1832.0
25°	1694.0	1707.6	1741.8	1766.2	1777.9
27.5°	1637.2	1657.1	1680.5	1709.4	1732.8
30°	1592.1	1590.3	1606.5	1648.0	1675.1
32.5°	1504.6	1510.9	1528.1	1577.7	1615.6
35°	1416.2	1417.1	1434.3	1499.2	1536.2
37.5°	1314.3	1307.1	1317.0	1387.4	1411.7
40°	1173.5	1175.3	1165.4	1215.0	1211.4
42.5°	1009.3	1023.8	972.4	1037.3	1032.8
45°	809.1	874.9	810.9	868.6	833.4
47.5°	638.6	736.0	682.8	725.2	659.4
50°	517.7	617.9	589.0	607.9	501.5
52.5°	424.8	506.0	515.0	519.6	391.5
55°	341.0	414.9	443.8	442.9	305.8
57.5°	251.7	337.3	370.7	384.3	231.8
60°	185.8	280.5	305.8	335.5	174.1
62.5°	149.7	246.2	252.6	294.1	132.6
65°	128.1	227.3	204.8	262.5	102.8
67.5°	113.7	212.0	166.9	234.5	87.5
70°	102.8	188.5	138.0	210.2	82.1
72.5°	100.1	160.6	106.4	187.6	81.2
75°	96.5	136.2	76.7	154.2	80.3
77.5°	83.0	116.4	55.0	119.1	74.9
80°	72.2	92.9	40.6	89.3	65.8
82.5°	55.9	70.4	36.1	67.6	53.2
85°	36.1	53.2	37.9	48.7	37.0
87.5°	17.1	29.8	27.1	26.2	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)