

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: P213561

Luminaire Tested: **14GR-LD5-40-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213561
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-LD5-40-A19/156-UNV-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3139.9 lumens
Efficiency: N/A
Efficacy: 80.9 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

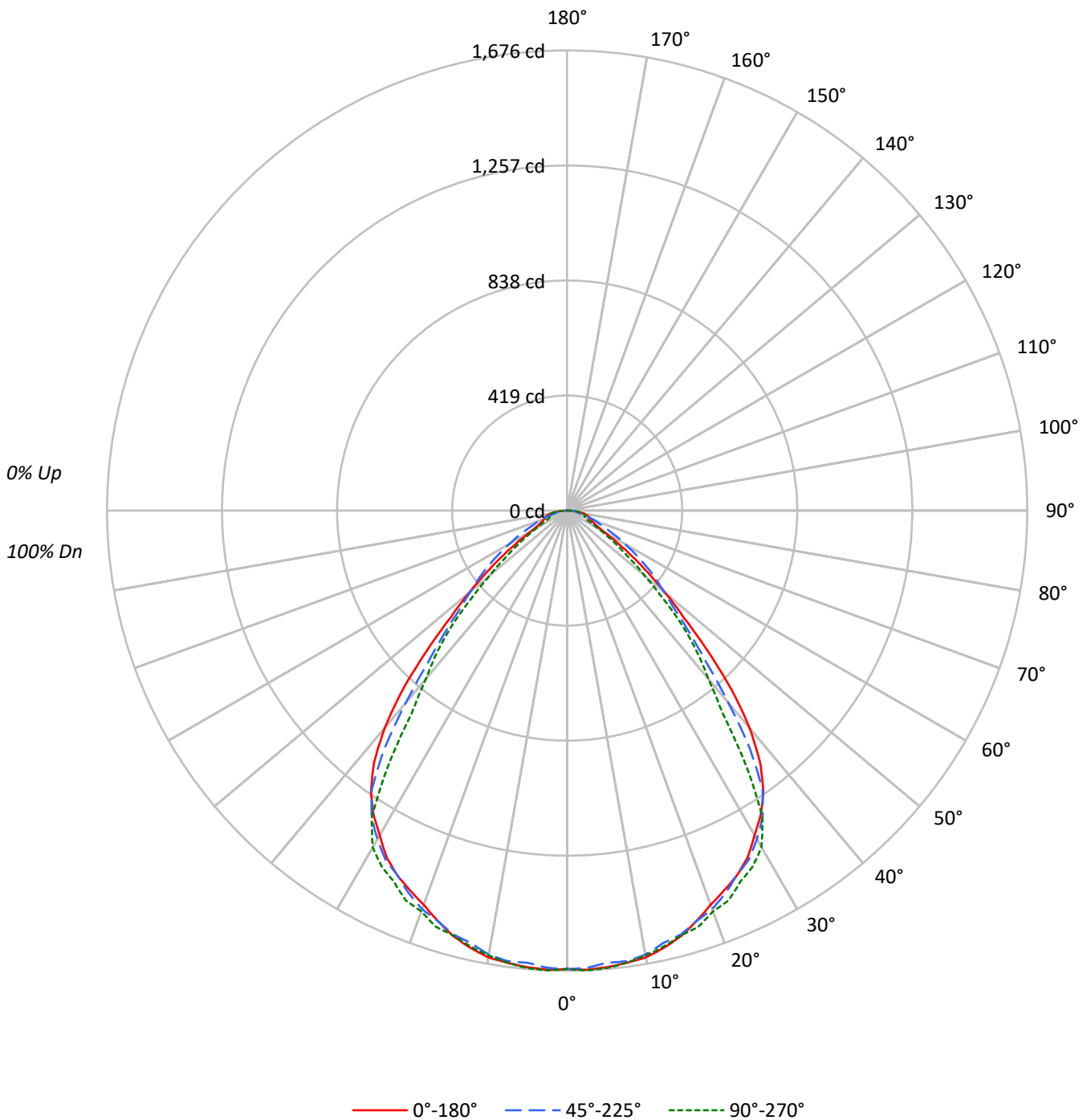
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5626	5626	5626
5°	5645	5592	5657
10°	5654	5619	5629
15°	5596	5576	5589
20°	5480	5539	5570
25°	5446	5443	5548
30°	5313	5378	5509
35°	5124	5103	4689
40°	4550	4015	3516
45°	3452	3004	2843
50°	2449	2404	1929
55°	1677	2052	1326
60°	1036	1637	887
65°	854	1261	642
70°	849	1098	658
75°	1021	785	880
80°	1170	726	1102
85°	1110	1276	1253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	5.0
10°-20°	452.2	14.4
20°-30°	680.0	21.7
30°-40°	741.3	23.6
40°-50°	519.1	16.5
50°-60°	293.8	9.4
60°-70°	160.8	5.1
70°-80°	97.4	3.1
80°-90°	36.9	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°	1290.6	41.1
0°-40°	2031.9	64.7
0°-60°	2844.7	90.6
0°-90°	3139.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3139.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1669	1666	1653	1672	1672	159
15°	1604	1600	1598	1622	1602	451
25°	1465	1468	1464	1498	1492	673
35°	1246	1240	1241	1177	1140	768
45°	724	756	630	622	597	563
55°	285	341	349	346	226	261
65°	107	176	158	200	80	110
75°	78	113	60	119	68	81
85°	29	47	33	40	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.7	1669.7	1669.7	1669.7	1669.7
2.5°	1673.9	1671.9	1666.8	1676.8	1676.1
5°	1669.0	1666.1	1653.1	1672.5	1672.5
7.5°	1661.7	1654.6	1655.3	1666.1	1661.1
10°	1652.4	1640.2	1642.3	1645.2	1645.2
12.5°	1630.9	1619.3	1613.6	1623.0	1625.8
15°	1604.2	1600.0	1598.5	1621.5	1602.1
17.5°	1566.9	1576.3	1567.6	1586.3	1589.2
20°	1528.1	1546.0	1544.6	1557.6	1553.3
22.5°	1496.5	1507.9	1507.9	1523.8	1536.7
25°	1464.9	1467.7	1464.1	1497.9	1492.2
27.5°	1423.9	1421.7	1433.2	1450.4	1462.0
30°	1365.6	1366.3	1382.2	1405.2	1416.0
32.5°	1312.5	1306.0	1325.4	1335.5	1323.9
35°	1245.6	1239.9	1240.6	1177.4	1139.9
37.5°	1154.4	1159.3	1093.2	977.5	928.6
40°	1034.3	1044.4	912.8	826.6	799.3
42.5°	889.1	892.0	748.2	720.2	702.3
45°	724.5	756.1	630.4	622.4	596.6
47.5°	574.3	633.2	528.3	533.4	471.5
50°	467.2	526.1	458.6	460.7	368.0
52.5°	369.4	427.0	404.6	398.2	288.9
55°	285.4	341.4	349.3	346.4	225.7
57.5°	209.9	270.2	293.2	304.0	174.0
60°	153.8	220.7	242.9	264.5	131.6
62.5°	122.2	191.1	199.1	230.7	102.1
65°	107.1	176.1	158.1	199.8	80.5
67.5°	95.6	167.5	128.6	176.8	70.5
70°	86.2	151.0	111.4	158.1	66.8
72.5°	86.2	132.2	87.6	140.2	67.6
75°	78.4	112.9	60.3	118.6	67.6
77.5°	69.7	96.3	45.3	96.3	63.2
80°	60.3	75.4	37.4	74.0	56.8
82.5°	44.6	56.8	32.4	55.4	46.0
85°	28.7	46.7	33.0	40.3	32.4
87.5°	13.7	23.7	20.8	20.1	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)