

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: P213604

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213604
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-LD5-43-A19/156-UNV-L940-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3581.9 lumens
Efficiency: N/A
Efficacy: 85.3 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

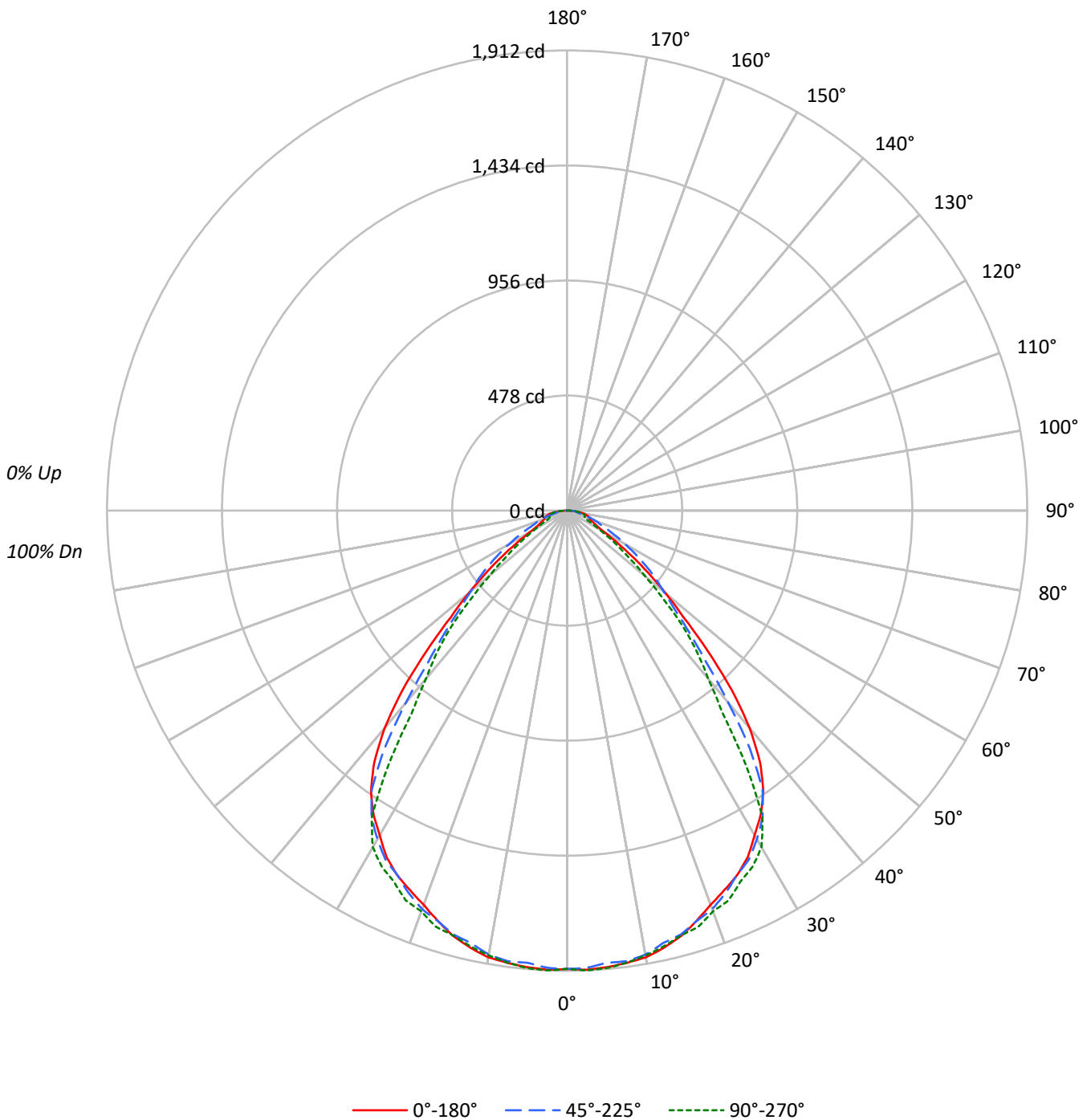
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6418	6418	6418
5°	6440	6379	6454
10°	6450	6411	6422
15°	6384	6361	6376
20°	6251	6319	6354
25°	6213	6210	6329
30°	6062	6135	6285
35°	5845	5821	5349
40°	5190	4580	4011
45°	3939	3426	3243
50°	2794	2742	2201
55°	1912	2341	1513
60°	1182	1868	1012
65°	974	1438	732
70°	969	1252	752
75°	1164	897	1004
80°	1337	829	1257
85°	1268	1461	1427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	5.0
10°-20°	515.8	14.4
20°-30°	775.7	21.7
30°-40°	845.6	23.6
40°-50°	592.1	16.5
50°-60°	335.2	9.4
60°-70°	183.4	5.1
70°-80°	111.2	3.1
80°-90°	42.2	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°	1472.2	41.1
0°-40°	2317.9	64.7
0°-60°	3245.2	90.6
0°-90°	3581.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3581.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1904	1901	1886	1908	1908	181
15°	1830	1825	1824	1850	1828	515
25°	1671	1674	1670	1709	1702	767
35°	1421	1414	1415	1343	1300	876
45°	826	863	719	710	680	642
55°	326	390	398	395	258	298
65°	122	201	180	228	92	125
75°	89	129	69	135	77	93
85°	33	53	38	46	37	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1904.7	1904.7	1904.7	1904.7	1904.7
2.5°	1909.6	1907.1	1901.5	1912.9	1912.1
5°	1903.9	1900.6	1885.9	1908.0	1908.0
7.5°	1895.7	1887.5	1888.3	1900.6	1894.8
10°	1885.0	1871.1	1873.6	1876.9	1876.9
12.5°	1860.4	1847.3	1840.7	1851.4	1854.7
15°	1830.1	1825.2	1823.5	1849.8	1827.7
17.5°	1787.4	1798.1	1788.3	1809.6	1812.9
20°	1743.2	1763.7	1762.1	1776.8	1771.9
22.5°	1707.1	1720.3	1720.3	1738.2	1753.0
25°	1671.1	1674.3	1670.2	1708.7	1702.2
27.5°	1624.3	1621.9	1634.9	1654.6	1667.7
30°	1557.9	1558.7	1576.7	1603.0	1615.3
32.5°	1497.2	1489.9	1512.0	1523.4	1510.3
35°	1421.0	1414.4	1415.2	1343.1	1300.4
37.5°	1316.8	1322.6	1247.1	1115.1	1059.3
40°	1179.9	1191.4	1041.3	942.9	911.8
42.5°	1014.3	1017.6	853.6	821.6	801.1
45°	826.5	862.6	719.0	710.1	680.5
47.5°	655.1	722.4	602.7	608.4	537.8
50°	532.9	600.2	523.1	525.5	419.8
52.5°	421.5	487.0	461.6	454.3	329.6
55°	325.5	389.5	398.5	395.2	257.5
57.5°	239.4	308.3	334.5	346.8	198.4
60°	175.4	251.7	277.2	301.8	150.1
62.5°	139.4	218.1	227.1	263.2	116.4
65°	122.2	200.9	180.4	227.9	91.8
67.5°	109.0	191.0	146.8	201.7	80.3
70°	98.4	172.2	127.1	180.4	76.3
72.5°	98.4	150.8	100.0	159.9	77.1
75°	89.4	128.7	68.9	135.3	77.1
77.5°	79.6	109.9	51.7	109.9	72.2
80°	68.9	86.1	42.7	84.5	64.8
82.5°	50.8	64.8	36.9	63.1	52.5
85°	32.8	53.3	37.8	45.9	36.9
87.5°	15.6	27.1	23.7	23.0	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)