

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: P234069

Luminaire Tested: **14GR-LD5-50-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-A125-UNV-L930-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3998.9 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

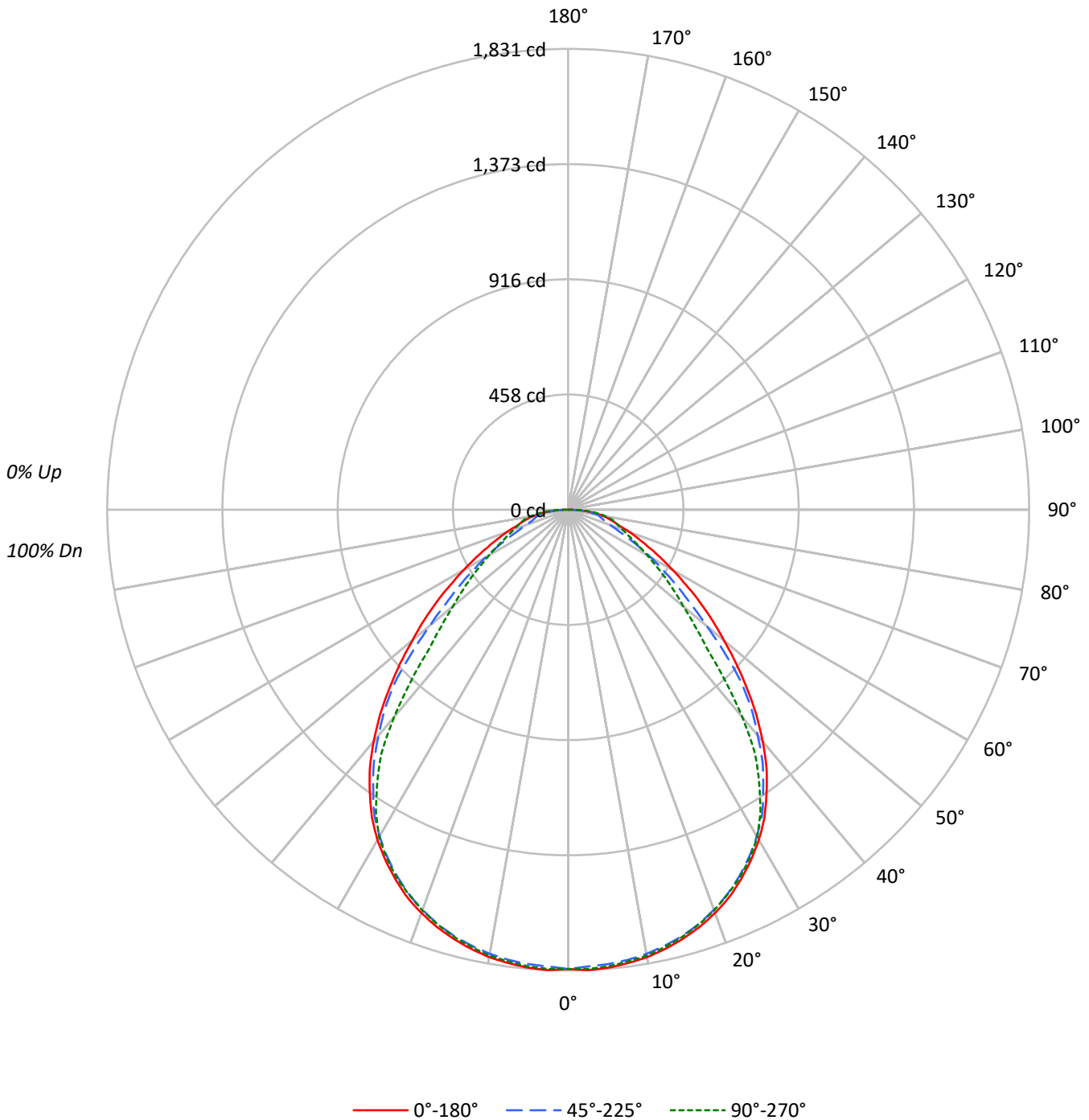
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6149	6149	6149
5°	6179	6132	6160
10°	6177	6129	6155
15°	6155	6117	6126
20°	6115	6068	6074
25°	6033	5977	5995
30°	5895	5829	5844
35°	5652	5556	5438
40°	5285	5154	4730
45°	4783	4646	3709
50°	4231	3759	3127
55°	3745	3091	2758
60°	3233	2558	2444
65°	2811	2034	2248
70°	2541	1746	2248
75°	2440	1824	2513
80°	2719	2323	2934
85°	2869	2474	3514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	4.3
10°-20°	496.1	12.4
20°-30°	742.4	18.6
30°-40°	840.4	21.0
40°-50°	715.8	17.9
50°-60°	484.7	12.1
60°-70°	289.4	7.2
70°-80°	180.8	4.5
80°-90°	76.4	1.9
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°	1411.5	35.3
0°-40°	2251.9	56.3
0°-60°	3452.3	86.3
0°-90°	3998.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3998.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1825	1825	1825	1825	1825	
5°	1827	1822	1813	1824	1821	174
15°	1764	1758	1753	1764	1756	498
25°	1623	1618	1608	1615	1612	746
35°	1374	1366	1351	1337	1322	856
45°	1004	1006	975	831	778	774
55°	637	602	526	469	469	570
65°	352	294	255	273	282	355
75°	187	168	140	184	193	202
85°	74	69	64	81	91	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1824.8	1824.8	1824.8	1824.8	1824.8
2.5°	1831.3	1826.7	1816.5	1828.6	1826.7
5°	1826.7	1822.0	1812.8	1823.9	1821.1
7.5°	1817.4	1812.8	1804.4	1815.5	1810.9
10°	1805.3	1799.8	1791.4	1803.5	1798.9
12.5°	1786.8	1781.2	1773.8	1785.8	1779.4
15°	1764.5	1758.0	1753.4	1764.5	1756.2
17.5°	1737.6	1732.0	1725.6	1736.7	1727.4
20°	1705.2	1700.5	1692.1	1698.7	1694.0
22.5°	1668.1	1661.6	1653.2	1660.6	1654.1
25°	1622.6	1617.9	1607.7	1615.2	1612.4
27.5°	1570.6	1567.9	1555.8	1565.0	1560.4
30°	1515.0	1507.5	1498.2	1501.1	1502.0
32.5°	1450.9	1441.7	1434.2	1427.8	1421.3
35°	1374.0	1365.6	1350.7	1336.9	1322.0
37.5°	1294.1	1283.0	1268.2	1237.6	1219.0
40°	1201.4	1195.9	1171.7	1129.0	1075.3
42.5°	1106.8	1101.2	1079.8	984.3	925.9
45°	1003.8	1006.5	975.0	831.2	778.4
47.5°	905.4	912.9	844.2	709.7	681.8
50°	807.1	815.5	717.1	613.2	596.5
52.5°	720.9	714.4	611.4	538.1	530.6
55°	637.4	602.1	526.1	469.4	469.4
57.5°	552.0	501.9	447.1	411.0	411.0
60°	479.7	417.5	379.5	355.3	362.7
62.5°	412.8	346.9	314.5	309.8	319.1
65°	352.5	294.1	255.1	272.7	282.0
67.5°	303.4	251.4	209.7	246.8	252.3
70°	257.9	219.0	177.2	227.3	228.2
72.5°	216.1	193.0	152.1	205.9	209.7
75°	187.4	167.9	140.1	183.7	193.0
77.5°	164.2	143.8	129.0	158.6	176.3
80°	140.1	117.9	119.7	133.6	151.2
82.5°	107.7	90.9	94.6	109.5	123.4
85°	74.2	68.6	64.0	80.7	90.9
87.5°	39.9	37.1	32.5	45.5	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)