

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: P234053

Luminaire Tested: **14GR-LD5-50-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-F1-UNV-L930-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3952.6 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

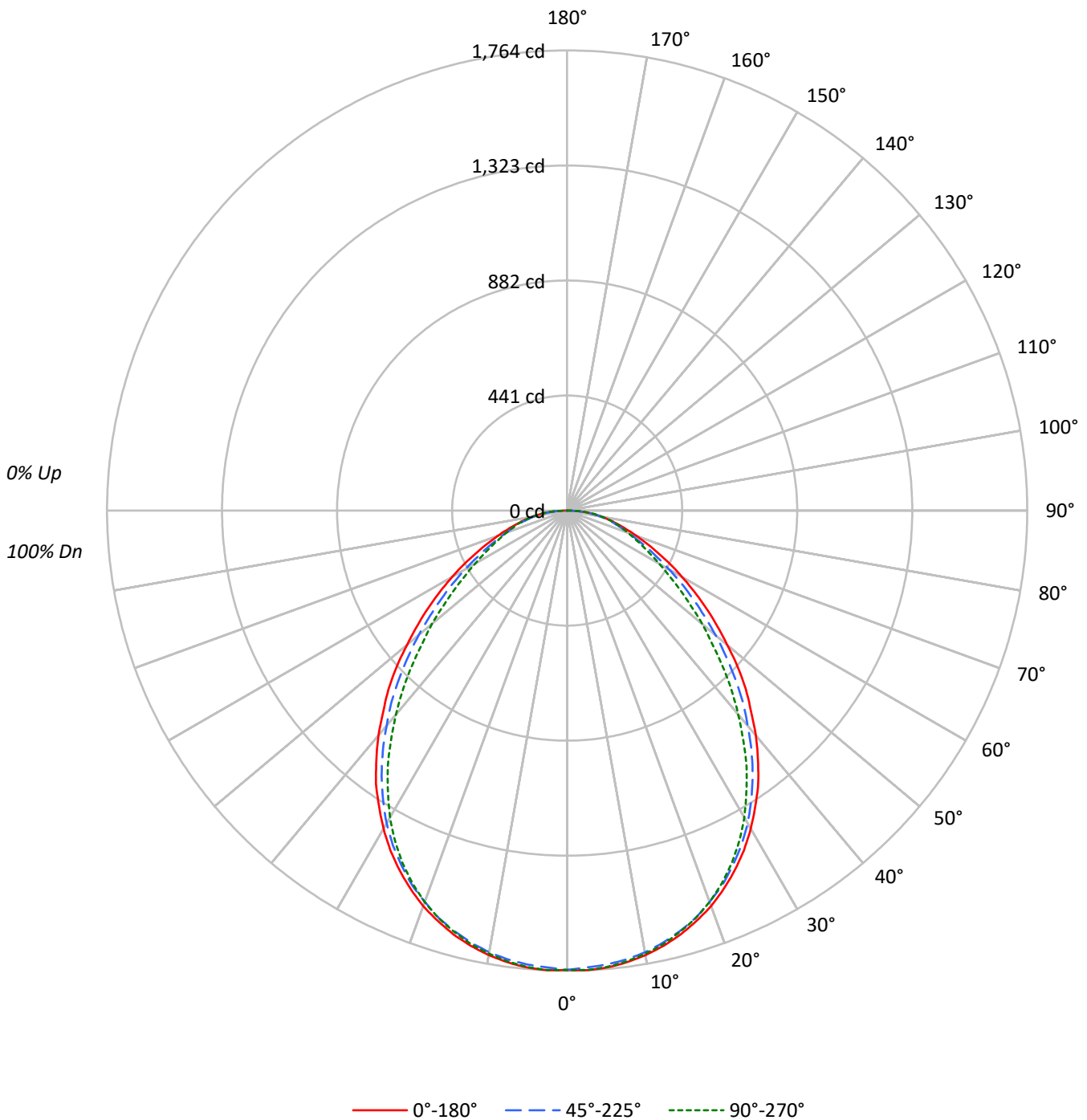
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88					85				
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36					34				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5933	5933	5933
5°	5947	5909	5940
10°	5920	5882	5901
15°	5868	5822	5832
20°	5785	5722	5725
25°	5653	5585	5546
30°	5479	5386	5285
35°	5255	5102	4935
40°	4950	4738	4489
45°	4615	4337	4014
50°	4197	3891	3545
55°	3821	3450	3091
60°	3426	3039	2745
65°	3054	2708	2523
70°	2778	2468	2440
75°	2596	2403	2524
80°	2610	2486	2629
85°	2726	2548	2903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	4.2
10°-20°	472.0	11.9
20°-30°	692.1	17.5
30°-40°	772.4	19.5
40°-50°	699.4	17.7
50°-60°	528.0	13.4
60°-70°	345.2	8.7
70°-80°	202.7	5.1
80°-90°	74.2	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°	1330.6	33.7
0°-40°	2103.1	53.2
0°-60°	3330.5	84.3
0°-90°	3952.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3952.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1758	1754	1747	1757	1756	167
15°	1682	1679	1669	1678	1672	474
25°	1521	1515	1502	1499	1492	700
35°	1278	1266	1240	1212	1200	796
45°	968	954	910	861	842	744
55°	650	636	587	541	526	582
65°	383	371	340	320	316	384
75°	199	194	185	188	194	214
85°	70	68	66	74	75	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1760.8	1760.8	1760.8	1760.8	1760.8
2.5°	1763.7	1760.8	1752.5	1763.7	1762.7
5°	1758.1	1754.4	1746.9	1757.1	1756.2
7.5°	1746.9	1743.2	1735.8	1745.1	1743.2
10°	1730.2	1726.6	1719.1	1729.3	1724.7
12.5°	1708.9	1705.2	1696.9	1706.1	1702.4
15°	1682.0	1679.3	1669.0	1678.3	1671.8
17.5°	1649.5	1644.9	1637.5	1643.1	1638.4
20°	1613.4	1607.8	1595.8	1601.3	1596.7
22.5°	1569.8	1562.3	1554.0	1554.0	1547.5
25°	1520.6	1515.0	1502.1	1499.2	1491.8
27.5°	1467.7	1463.0	1446.4	1441.7	1428.8
30°	1408.3	1401.8	1384.2	1369.3	1358.2
32.5°	1342.4	1337.8	1313.7	1294.2	1278.4
35°	1277.5	1266.3	1240.4	1212.5	1199.6
37.5°	1201.4	1193.0	1160.6	1126.3	1108.6
40°	1125.3	1115.2	1077.1	1039.1	1020.5
42.5°	1042.8	1033.5	997.3	951.8	932.4
45°	968.5	953.8	910.1	861.0	842.4
47.5°	886.9	871.2	824.8	772.8	751.5
50°	800.6	790.4	742.2	692.1	676.3
52.5°	723.7	707.9	662.4	613.2	596.5
55°	650.4	635.5	587.2	540.9	526.1
57.5°	577.0	560.3	518.6	476.8	462.0
60°	508.4	491.7	450.9	416.6	407.3
62.5°	446.2	427.7	391.5	364.6	358.1
65°	383.1	371.1	339.6	320.0	316.4
67.5°	330.3	315.4	290.4	281.1	279.2
70°	282.0	271.8	250.5	247.7	247.7
72.5°	238.5	230.1	214.3	216.1	219.0
75°	199.4	193.9	184.6	188.3	193.9
77.5°	166.1	160.5	155.0	160.5	164.2
80°	134.5	129.0	128.1	132.6	135.5
82.5°	101.1	96.4	97.4	104.8	107.7
85°	70.5	67.7	65.9	74.2	75.1
87.5°	36.2	34.4	33.4	39.9	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)