

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: P393195

Luminaire Tested: **14EN-LD2-51-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-56)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-51-UNV-L83050-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5000.3 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

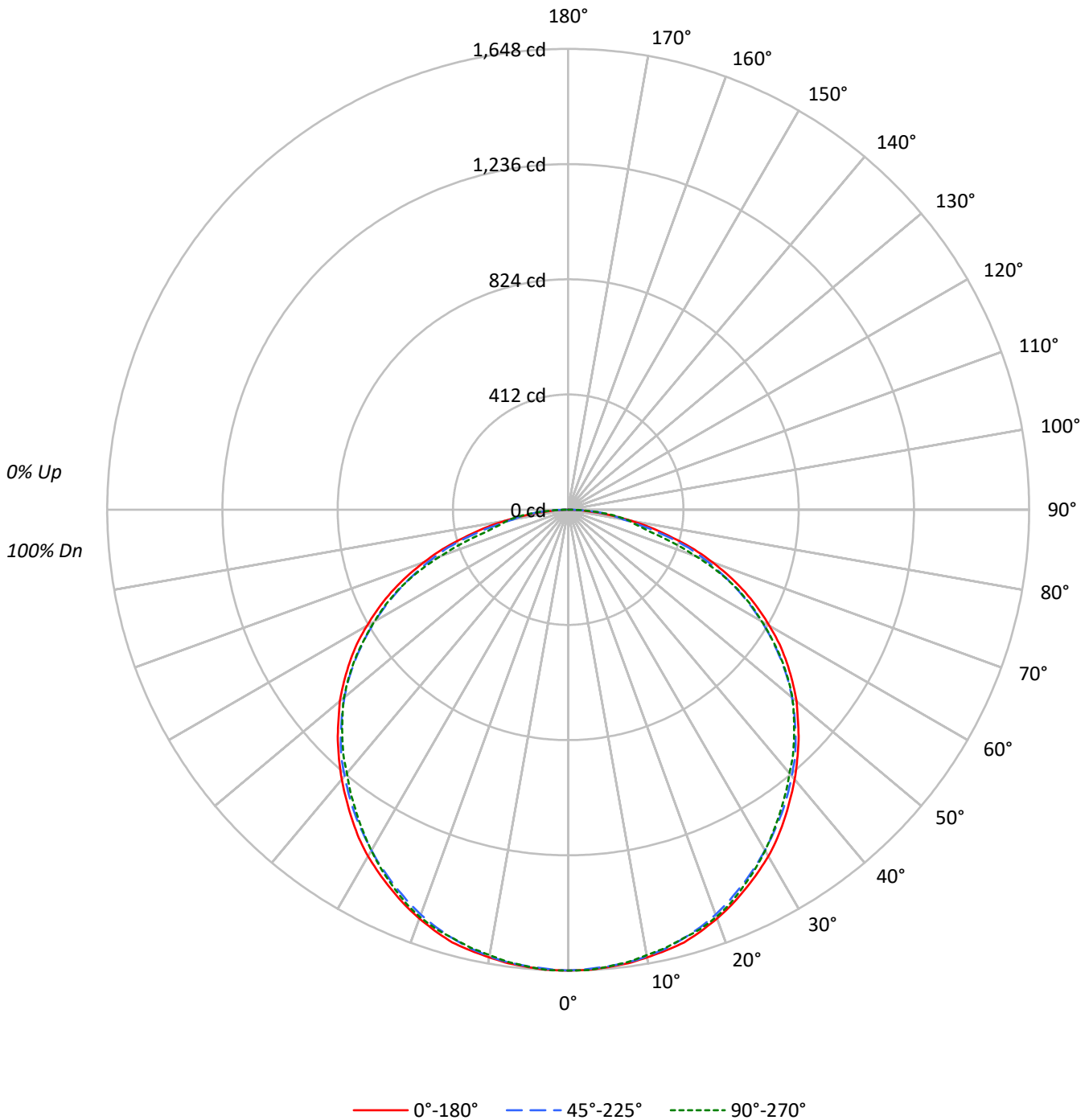
Input Watts (W): 51.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																												
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68																												
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57																												
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																												
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42																												
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36																												
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32																												
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28																												
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																												
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4435	4435	4435
5°	4436	4428	4431
10°	4442	4431	4420
15°	4463	4424	4422
20°	4455	4413	4438
25°	4447	4388	4409
30°	4448	4372	4375
35°	4432	4367	4338
40°	4424	4365	4324
45°	4434	4374	4348
50°	4461	4371	4383
55°	4478	4344	4362
60°	4470	4295	4305
65°	4442	4204	4229
70°	4319	4087	3825
75°	4021	3765	3131
80°	3553	3110	3400
85°	2553	3341	3402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.1
10°-20°	449.3	9.0
20°-30°	683.6	13.7
30°-40°	835.0	16.7
40°-50°	889.5	17.8
50°-60°	834.2	16.7
60°-70°	662.0	13.2
70°-80°	376.9	7.5
80°-90°	113.5	2.3
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°	1289.2	25.8
0°-40°	2124.3	42.5
0°-60°	3847.9	77.0
0°-90°	5000.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5000.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1648	1648	1648	1648	1648	
5°	1642	1647	1639	1650	1640	156
15°	1602	1595	1588	1590	1587	452
25°	1498	1484	1478	1475	1485	691
35°	1349	1342	1329	1327	1320	844
45°	1165	1163	1149	1141	1142	899
55°	954	946	926	922	930	852
65°	698	684	660	665	664	688
75°	387	377	362	321	301	411
85°	83	92	108	107	110	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1648.1	1648.1	1648.1	1648.1	1648.1
2.5°	1647.1	1654.0	1644.2	1652.0	1648.1
5°	1642.2	1647.1	1639.3	1650.1	1640.2
7.5°	1636.3	1639.3	1633.4	1643.2	1631.4
10°	1625.5	1627.4	1621.5	1629.4	1617.6
12.5°	1614.7	1611.7	1607.8	1610.7	1604.8
15°	1601.9	1595.0	1588.1	1590.1	1587.1
17.5°	1580.2	1571.4	1566.4	1564.5	1572.3
20°	1555.6	1544.8	1540.9	1538.9	1549.7
22.5°	1529.1	1515.3	1510.4	1508.4	1521.2
25°	1497.6	1483.8	1477.9	1474.9	1484.8
27.5°	1465.1	1450.3	1443.5	1441.5	1448.4
30°	1431.6	1414.9	1407.0	1406.1	1408.0
32.5°	1392.3	1379.5	1367.7	1368.7	1364.7
35°	1349.0	1342.1	1329.3	1327.3	1320.5
37.5°	1303.7	1303.7	1287.0	1290.0	1277.2
40°	1259.5	1260.4	1242.7	1243.7	1230.9
42.5°	1212.2	1215.2	1200.4	1192.5	1189.6
45°	1165.0	1163.0	1149.3	1141.4	1142.4
47.5°	1113.8	1113.8	1098.1	1091.2	1094.1
50°	1065.6	1061.7	1044.0	1038.1	1046.9
52.5°	1010.5	1005.6	987.9	981.0	989.9
55°	954.4	945.6	925.9	922.0	929.8
57.5°	896.4	884.6	862.9	861.0	864.9
60°	830.5	820.6	798.0	794.0	799.9
62.5°	766.5	752.7	730.1	730.1	736.0
65°	697.6	683.8	660.2	665.1	664.2
67.5°	624.8	611.0	590.4	592.3	581.5
70°	549.0	533.3	519.5	500.8	486.1
72.5°	472.3	455.6	450.6	407.4	392.6
75°	386.7	376.9	362.1	320.8	301.1
77.5°	310.9	301.1	274.5	243.0	248.0
80°	229.3	231.2	200.7	212.5	219.4
82.5°	150.5	155.5	162.4	171.2	173.2
85°	82.7	92.5	108.2	107.3	110.2
87.5°	32.5	43.3	47.2	49.2	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)