

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: P393188

Luminaire Tested: **14EN-LD2-51-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393188
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-L82765-W2A-1-U (3500K)
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4813.1 lumens
Efficiency: N/A
Efficacy: 94.2 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

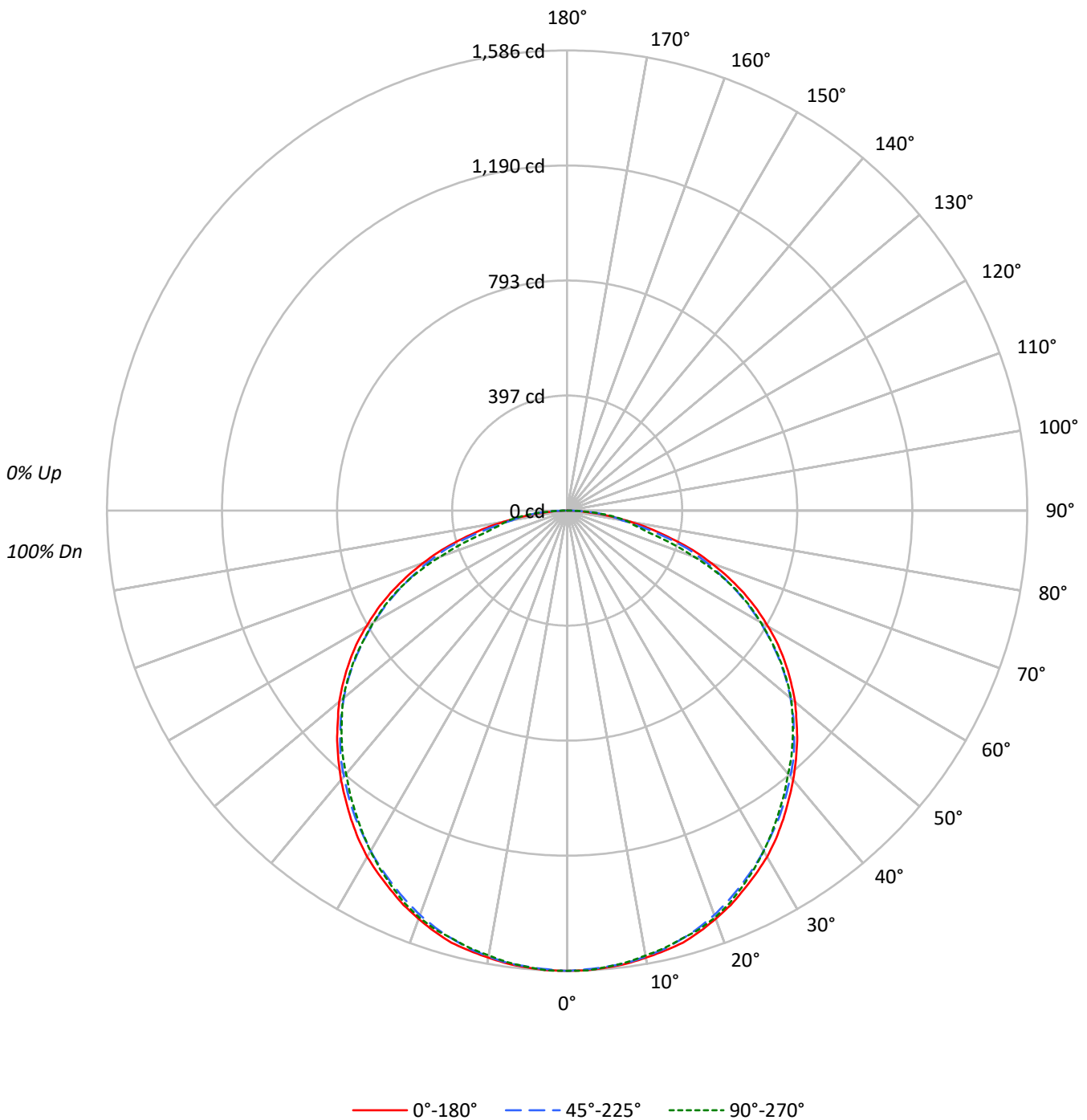
Input Watts (W): 51.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393188

CATALOG NUMBER: 14EN-LD2-51-UNV-L82765-W2A-1-U (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P393188

CATALOG NUMBER: 14EN-LD2-51-UNV-L82765-W2A-1-U (3500K)

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	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°	4269	4269	4269
5°	4270	4262	4265
10°	4275	4265	4255
15°	4296	4259	4256
20°	4288	4247	4272
25°	4280	4224	4244
30°	4282	4208	4211
35°	4266	4204	4175
40°	4259	4202	4162
45°	4268	4210	4185
50°	4294	4207	4219
55°	4310	4181	4199
60°	4302	4134	4144
65°	4276	4046	4071
70°	4158	3935	3681
75°	3870	3623	3013
80°	3420	2994	3273
85°	2458	3217	3276



TEST NUMBER: P393188

CATALOG NUMBER: 14EN-LD2-51-UNV-L82765-W2A-1-U (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	3.1
10°-20°	432.5	9.0
20°-30°	658.0	13.7
30°-40°	803.8	16.7
40°-50°	856.2	17.8
50°-60°	802.9	16.7
60°-70°	637.3	13.2
70°-80°	362.7	7.5
80°-90°	109.3	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°	1241.0	25.8
0°-40°	2044.8	42.5
0°-60°	3703.8	77.0
0°-90°	4813.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4813.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1581	1586	1578	1588	1579	150
15°	1542	1535	1529	1530	1528	435
25°	1442	1428	1423	1420	1429	665
35°	1298	1292	1280	1278	1271	813
45°	1121	1120	1106	1099	1100	865
55°	919	910	891	887	895	821
65°	672	658	636	640	639	662
75°	372	363	348	309	290	396
85°	80	89	104	103	106	100
90°	0	0	0	0	0	



TEST NUMBER: P393188

CATALOG NUMBER: 14EN-LD2-51-UNV-L82765-W2A-1-U (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1586.4	1586.4	1586.4	1586.4	1586.4
2.5°	1585.5	1592.1	1582.6	1590.2	1586.4
5°	1580.7	1585.5	1577.9	1588.3	1578.8
7.5°	1575.1	1577.9	1572.2	1581.7	1570.3
10°	1564.6	1566.5	1560.8	1568.4	1557.1
12.5°	1554.2	1551.4	1547.6	1550.4	1544.7
15°	1541.9	1535.3	1528.6	1530.5	1527.7
17.5°	1521.1	1512.5	1507.8	1505.9	1513.5
20°	1497.4	1487.0	1483.2	1481.3	1491.7
22.5°	1471.8	1458.6	1453.8	1451.9	1464.2
25°	1441.5	1428.2	1422.6	1419.7	1429.2
27.5°	1410.3	1396.0	1389.4	1387.5	1394.2
30°	1378.1	1362.0	1354.4	1353.4	1355.3
32.5°	1340.2	1327.9	1316.5	1317.4	1313.6
35°	1298.5	1291.9	1279.6	1277.7	1271.0
37.5°	1254.9	1254.9	1238.8	1241.7	1229.4
40°	1212.3	1213.3	1196.2	1197.2	1184.8
42.5°	1166.8	1169.7	1155.5	1147.9	1145.1
45°	1121.4	1119.5	1106.2	1098.7	1099.6
47.5°	1072.1	1072.1	1057.0	1050.3	1053.2
50°	1025.7	1021.9	1004.9	999.2	1007.7
52.5°	972.7	968.0	950.9	944.3	952.8
55°	918.7	910.2	891.2	887.4	895.0
57.5°	862.8	851.5	830.6	828.7	832.5
60°	799.4	789.9	768.1	764.3	770.0
62.5°	737.8	724.5	702.8	702.8	708.4
65°	671.5	658.2	635.5	640.2	639.3
67.5°	601.4	588.2	568.3	570.2	559.7
70°	528.5	513.3	500.1	482.1	467.9
72.5°	454.6	438.5	433.8	392.1	377.9
75°	372.2	362.7	348.5	308.8	289.8
77.5°	299.3	289.8	264.2	233.9	238.7
80°	220.7	222.6	193.2	204.6	211.2
82.5°	144.9	149.6	156.3	164.8	166.7
85°	79.6	89.0	104.2	103.2	106.1
87.5°	31.3	41.7	45.5	47.4	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)