

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: P393199

Luminaire Tested: **14EN-LD2-51-UNV-L83050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393199
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 (5000K)
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: 5177.7 lumens
Efficiency: N/A
Efficacy: 102.1 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

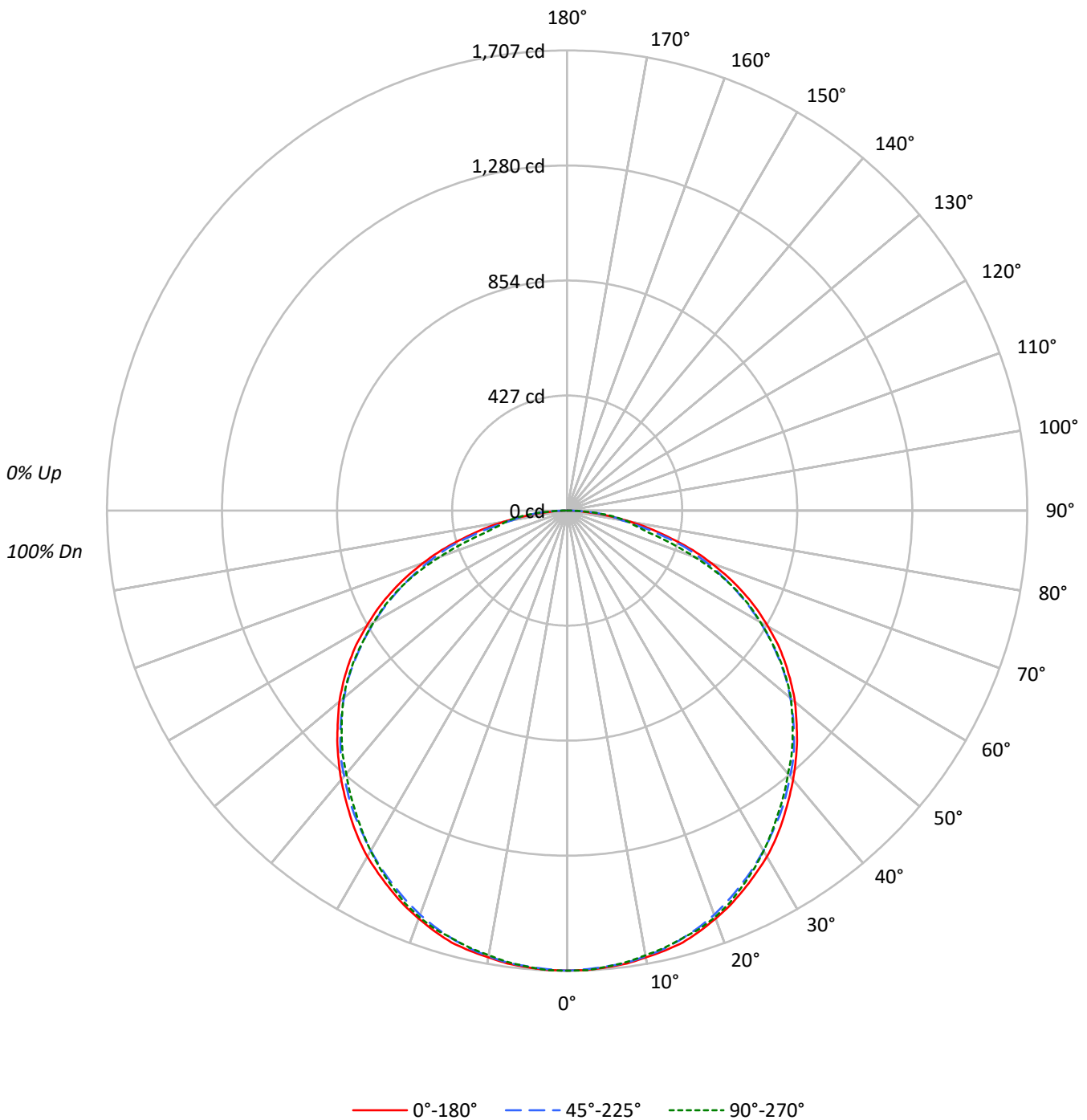
Input Watts (W): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4592	4592	4592
5°	4593	4585	4588
10°	4599	4588	4577
15°	4621	4581	4578
20°	4613	4569	4595
25°	4604	4544	4565
30°	4606	4527	4530
35°	4589	4522	4492
40°	4581	4520	4477
45°	4591	4529	4502
50°	4619	4526	4538
55°	4637	4498	4517
60°	4628	4447	4458
65°	4600	4353	4379
70°	4473	4233	3960
75°	4163	3898	3242
80°	3679	3220	3521
85°	2643	3461	3523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	3.1
10°-20°	465.2	9.0
20°-30°	707.8	13.7
30°-40°	864.7	16.7
40°-50°	921.0	17.8
50°-60°	863.7	16.7
60°-70°	685.5	13.2
70°-80°	390.2	7.5
80°-90°	117.5	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°	1335.0	25.8
0°-40°	2199.6	42.5
0°-60°	3984.4	77.0
0°-90°	5177.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5177.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1707	1707	1707	1707	1707	
5°	1700	1706	1697	1709	1698	162
15°	1659	1652	1644	1646	1643	468
25°	1551	1536	1530	1527	1538	715
35°	1397	1390	1376	1374	1367	874
45°	1206	1204	1190	1182	1183	931
55°	988	979	959	955	963	883
65°	722	708	684	689	688	712
75°	400	390	375	332	312	426
85°	86	96	112	111	114	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1706.6	1706.6	1706.6	1706.6	1706.6
2.5°	1705.6	1712.7	1702.5	1710.7	1706.6
5°	1700.5	1705.6	1697.4	1708.6	1698.4
7.5°	1694.4	1697.4	1691.3	1701.5	1689.3
10°	1683.2	1685.2	1679.1	1687.2	1675.0
12.5°	1672.0	1668.9	1664.8	1667.9	1661.8
15°	1658.7	1651.6	1644.4	1646.5	1643.4
17.5°	1636.3	1627.1	1622.0	1620.0	1628.1
20°	1610.8	1599.6	1595.5	1593.5	1604.7
22.5°	1583.3	1569.1	1564.0	1561.9	1575.2
25°	1550.7	1536.4	1530.3	1527.3	1537.5
27.5°	1517.1	1501.8	1494.7	1492.6	1499.8
30°	1482.4	1465.1	1457.0	1456.0	1458.0
32.5°	1441.7	1428.4	1416.2	1417.2	1413.2
35°	1396.9	1389.7	1376.5	1374.4	1367.3
37.5°	1350.0	1350.0	1332.7	1335.7	1322.5
40°	1304.1	1305.2	1286.8	1287.8	1274.6
42.5°	1255.2	1258.3	1243.0	1234.9	1231.8
45°	1206.3	1204.3	1190.0	1181.9	1182.9
47.5°	1153.4	1153.4	1137.1	1129.9	1133.0
50°	1103.4	1099.4	1081.0	1074.9	1084.1
52.5°	1046.4	1041.3	1022.9	1015.8	1025.0
55°	988.3	979.1	958.8	954.7	962.8
57.5°	928.2	916.0	893.5	891.5	895.6
60°	859.9	849.7	826.3	822.2	828.3
62.5°	793.7	779.4	756.0	756.0	762.1
65°	722.4	708.1	683.7	688.8	687.7
67.5°	647.0	632.7	611.3	613.4	602.1
70°	568.5	552.2	538.0	518.6	503.3
72.5°	489.1	471.7	466.6	421.8	406.5
75°	400.4	390.2	374.9	332.1	311.8
77.5°	322.0	311.8	284.3	251.7	256.8
80°	237.4	239.4	207.8	220.1	227.2
82.5°	155.9	161.0	168.1	177.3	179.3
85°	85.6	95.8	112.1	111.1	114.1
87.5°	33.6	44.8	48.9	50.9	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)