

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: P393137

Luminaire Tested: **14EN-LD2-43-UNV-L83050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-54)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-43-UNV-L83050-W2A-1-U (6500K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4333.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

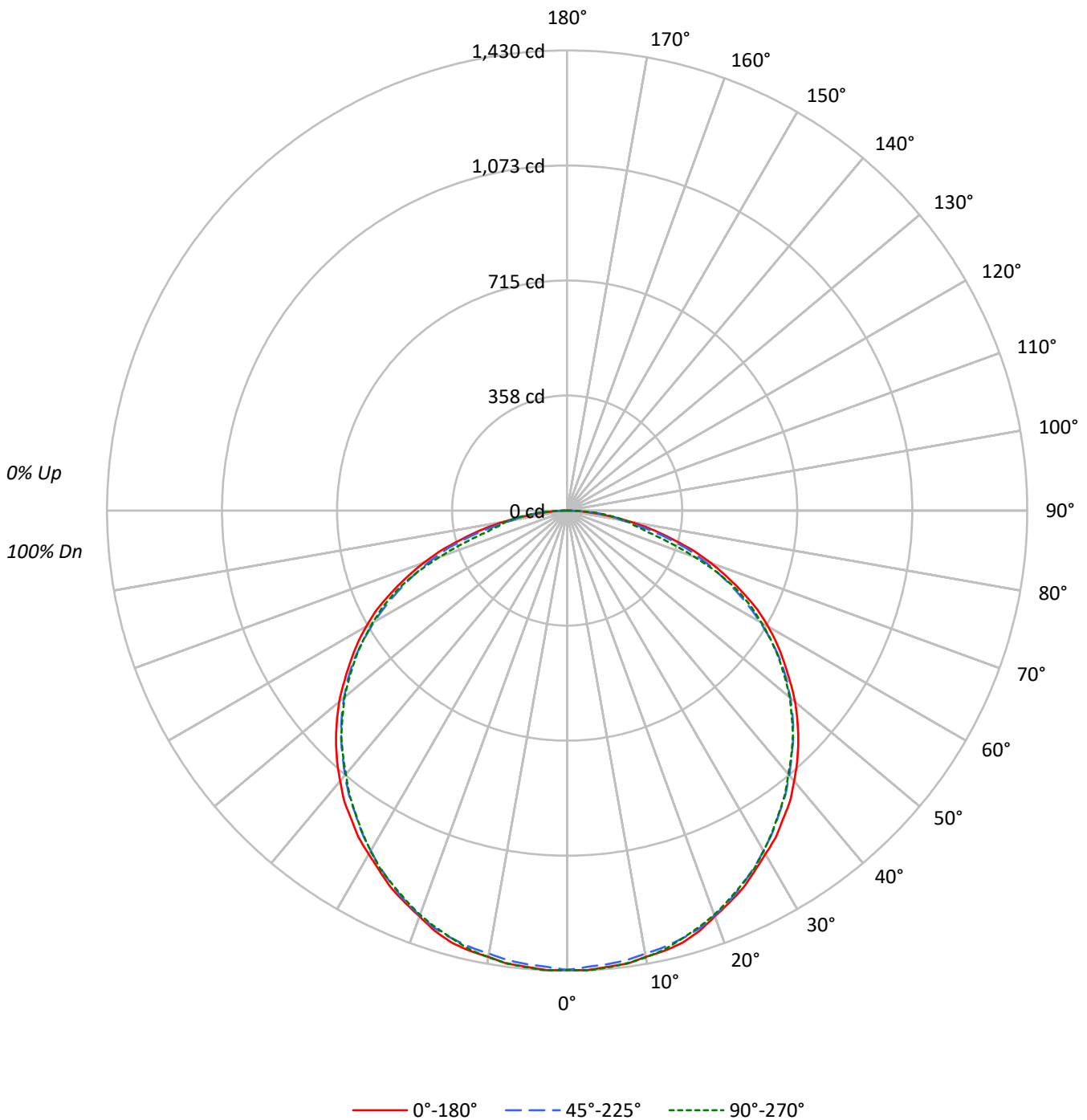
Input Watts (W): 41.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3841	3841	3841
5°	3845	3823	3850
10°	3848	3820	3853
15°	3872	3838	3838
20°	3842	3834	3828
25°	3842	3815	3809
30°	3831	3793	3796
35°	3843	3772	3769
40°	3855	3772	3758
45°	3866	3781	3777
50°	3873	3788	3779
55°	3862	3791	3772
60°	3883	3729	3756
65°	3834	3633	3705
70°	3736	3527	3327
75°	3464	3252	2712
80°	3064	2653	2921
85°	2232	2893	2958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.1
10°-20°	389.5	9.0
20°-30°	592.7	13.7
30°-40°	723.5	16.7
40°-50°	770.9	17.8
50°-60°	722.7	16.7
60°-70°	574.1	13.2
70°-80°	326.4	7.5
80°-90°	98.0	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°	1117.5	25.8
0°-40°	1841.0	42.5
0°-60°	3334.6	77.0
0°-90°	4333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1423	1420	1415	1426	1425	136
15°	1390	1386	1378	1376	1378	391
25°	1294	1288	1285	1281	1283	596
35°	1170	1160	1148	1151	1147	733
45°	1016	1011	993	990	992	784
55°	823	816	808	798	804	737
65°	602	592	571	578	582	595
75°	333	330	313	278	261	355
85°	72	80	94	94	96	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.4	1427.4	1427.4	1427.4	1427.4
2.5°	1429.5	1425.4	1419.3	1432.5	1430.5
5°	1423.4	1420.3	1415.2	1426.4	1425.4
7.5°	1420.3	1414.2	1409.1	1421.3	1419.3
10°	1408.1	1409.1	1397.9	1410.1	1410.1
12.5°	1400.9	1398.9	1389.7	1393.8	1396.9
15°	1389.7	1385.7	1377.5	1375.5	1377.5
17.5°	1369.4	1365.3	1362.2	1355.1	1358.1
20°	1341.8	1343.9	1338.8	1332.7	1336.8
22.5°	1318.4	1316.4	1314.3	1308.2	1310.3
25°	1294.0	1287.8	1284.8	1280.7	1282.8
27.5°	1262.4	1258.3	1254.2	1252.2	1256.3
30°	1232.8	1226.7	1220.6	1218.6	1221.6
32.5°	1205.3	1194.1	1187.0	1188.0	1184.9
35°	1169.7	1159.5	1148.3	1151.3	1147.2
37.5°	1138.1	1125.8	1113.6	1116.7	1111.6
40°	1097.3	1090.2	1073.9	1075.9	1069.8
42.5°	1058.6	1054.5	1033.1	1034.1	1031.1
45°	1015.8	1010.7	993.4	990.3	992.4
47.5°	971.0	965.9	950.6	943.5	946.5
50°	925.1	919.0	904.8	898.6	902.7
52.5°	873.2	870.1	858.9	849.7	852.8
55°	823.2	816.1	808.0	797.8	803.9
57.5°	774.3	766.2	750.9	745.8	751.9
60°	721.4	708.1	692.8	688.8	697.9
62.5°	666.3	651.1	631.7	632.7	643.9
65°	602.1	592.0	570.6	577.7	581.8
67.5°	536.9	528.8	508.4	518.6	507.4
70°	474.8	464.6	448.3	435.1	422.8
72.5°	408.6	396.3	386.1	351.5	337.2
75°	333.2	330.1	312.8	278.2	260.8
77.5°	269.0	261.8	238.4	211.9	214.0
80°	197.7	202.8	171.2	183.4	188.5
82.5°	130.4	133.5	141.6	147.7	146.7
85°	72.3	79.5	93.7	93.7	95.8
87.5°	27.5	35.7	40.8	41.8	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)