

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: P393134

Luminaire Tested: **14EN-LD2-43-UNV-L83050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393134
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 (4500K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4328.6 lumens
Efficiency: N/A
Efficacy: 104.1 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

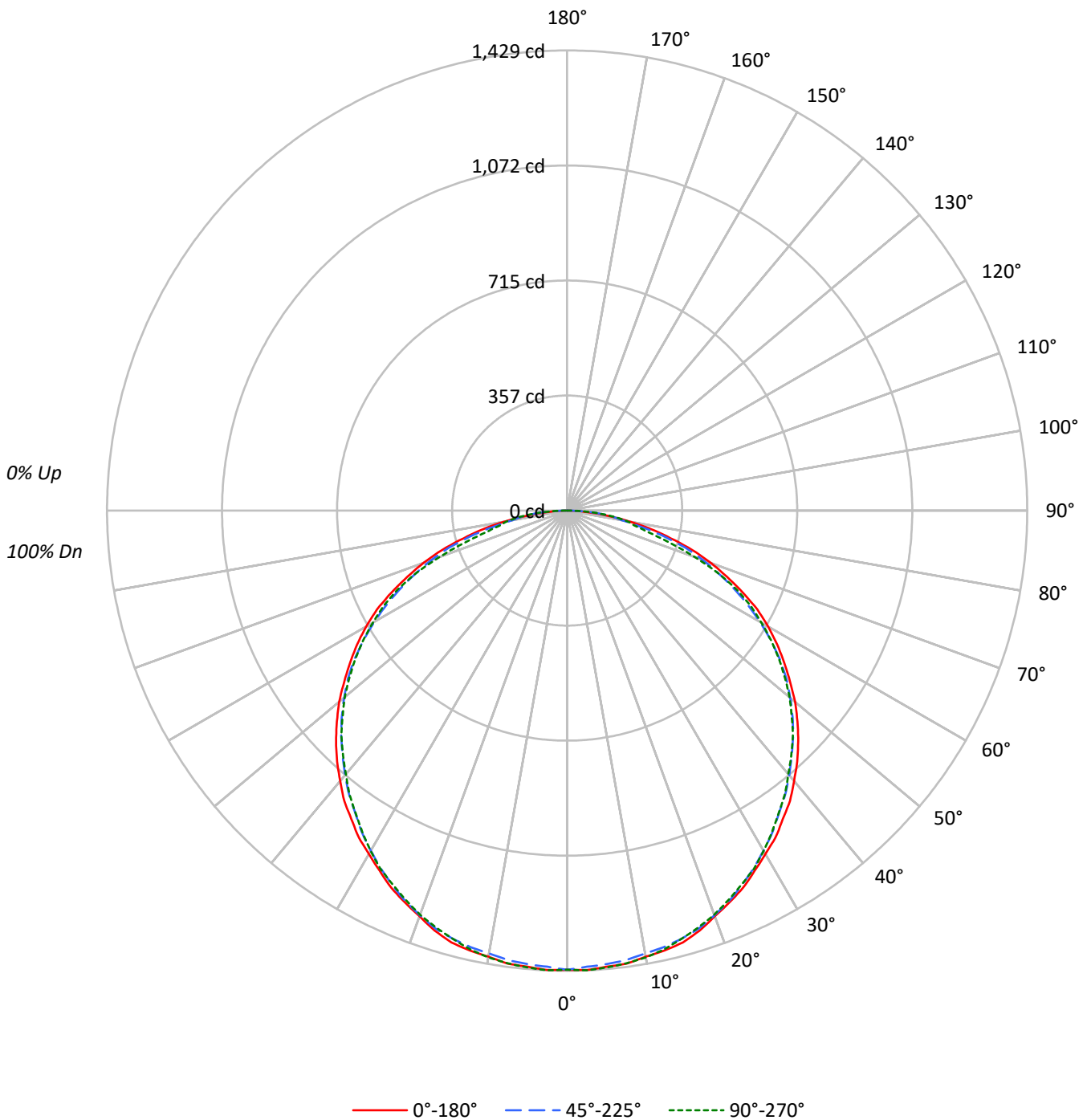
Input Watts (W): 41.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3837	3837	3837
5°	3841	3819	3846
10°	3844	3816	3849
15°	3868	3834	3834
20°	3839	3830	3824
25°	3838	3811	3805
30°	3827	3789	3792
35°	3839	3768	3765
40°	3851	3769	3754
45°	3862	3777	3773
50°	3869	3784	3775
55°	3858	3787	3768
60°	3878	3725	3752
65°	3830	3629	3701
70°	3732	3523	3323
75°	3460	3249	2709
80°	3061	2650	2918
85°	2232	2890	2955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.1
10°-20°	389.1	9.0
20°-30°	592.1	13.7
30°-40°	722.7	16.7
40°-50°	770.1	17.8
50°-60°	722.0	16.7
60°-70°	573.5	13.2
70°-80°	326.1	7.5
80°-90°	97.9	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°	1116.4	25.8
0°-40°	1839.1	42.5
0°-60°	3331.2	77.0
0°-90°	4328.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4328.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1422	1419	1414	1425	1424	135
15°	1388	1384	1376	1374	1376	391
25°	1293	1286	1284	1279	1281	595
35°	1168	1158	1147	1150	1146	732
45°	1015	1010	992	989	991	783
55°	822	815	807	797	803	736
65°	602	591	570	577	581	594
75°	333	330	312	278	261	355
85°	72	79	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°	1426.0	1426.0	1426.0	1426.0	1426.0
2.5°	1428.0	1423.9	1417.8	1431.1	1429.0
5°	1421.9	1418.9	1413.8	1425.0	1423.9
7.5°	1418.9	1412.7	1407.7	1419.9	1417.8
10°	1406.6	1407.7	1396.5	1408.7	1408.7
12.5°	1399.5	1397.5	1388.3	1392.4	1395.4
15°	1388.3	1384.2	1376.1	1374.1	1376.1
17.5°	1368.0	1363.9	1360.8	1353.7	1356.8
20°	1340.5	1342.5	1337.4	1331.3	1335.4
22.5°	1317.1	1315.0	1313.0	1306.9	1308.9
25°	1292.6	1286.5	1283.5	1279.4	1281.4
27.5°	1261.1	1257.0	1252.9	1250.9	1255.0
30°	1231.6	1225.5	1219.4	1217.3	1220.4
32.5°	1204.1	1192.9	1185.8	1186.8	1183.7
35°	1168.5	1158.3	1147.1	1150.1	1146.1
37.5°	1136.9	1124.7	1112.5	1115.5	1110.4
40°	1096.2	1089.1	1072.8	1074.8	1068.7
42.5°	1057.5	1053.5	1032.1	1033.1	1030.0
45°	1014.8	1009.7	992.4	989.3	991.4
47.5°	970.0	964.9	949.6	942.5	945.6
50°	924.2	918.1	903.8	897.7	901.8
52.5°	872.3	869.2	858.0	848.9	851.9
55°	822.4	815.3	807.1	797.0	803.1
57.5°	773.5	765.4	750.1	745.0	751.2
60°	720.6	707.4	692.1	688.1	697.2
62.5°	665.7	650.4	631.1	632.1	643.3
65°	601.5	591.4	570.0	577.1	581.2
67.5°	536.4	528.3	507.9	518.1	506.9
70°	474.3	464.1	447.8	434.6	422.4
72.5°	408.1	395.9	385.8	351.2	336.9
75°	332.8	329.8	312.5	277.9	260.6
77.5°	268.7	261.6	238.2	211.7	213.7
80°	197.5	202.5	171.0	183.2	188.3
82.5°	130.3	133.3	141.5	147.6	146.6
85°	72.3	79.4	93.6	93.6	95.7
87.5°	27.5	35.6	40.7	41.7	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)