

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: P393422

Luminaire Tested: **24EN-LD2-30-UNV-L83050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-30-UNV-L83050-W2A-1-U (4500K)
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3109.5 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

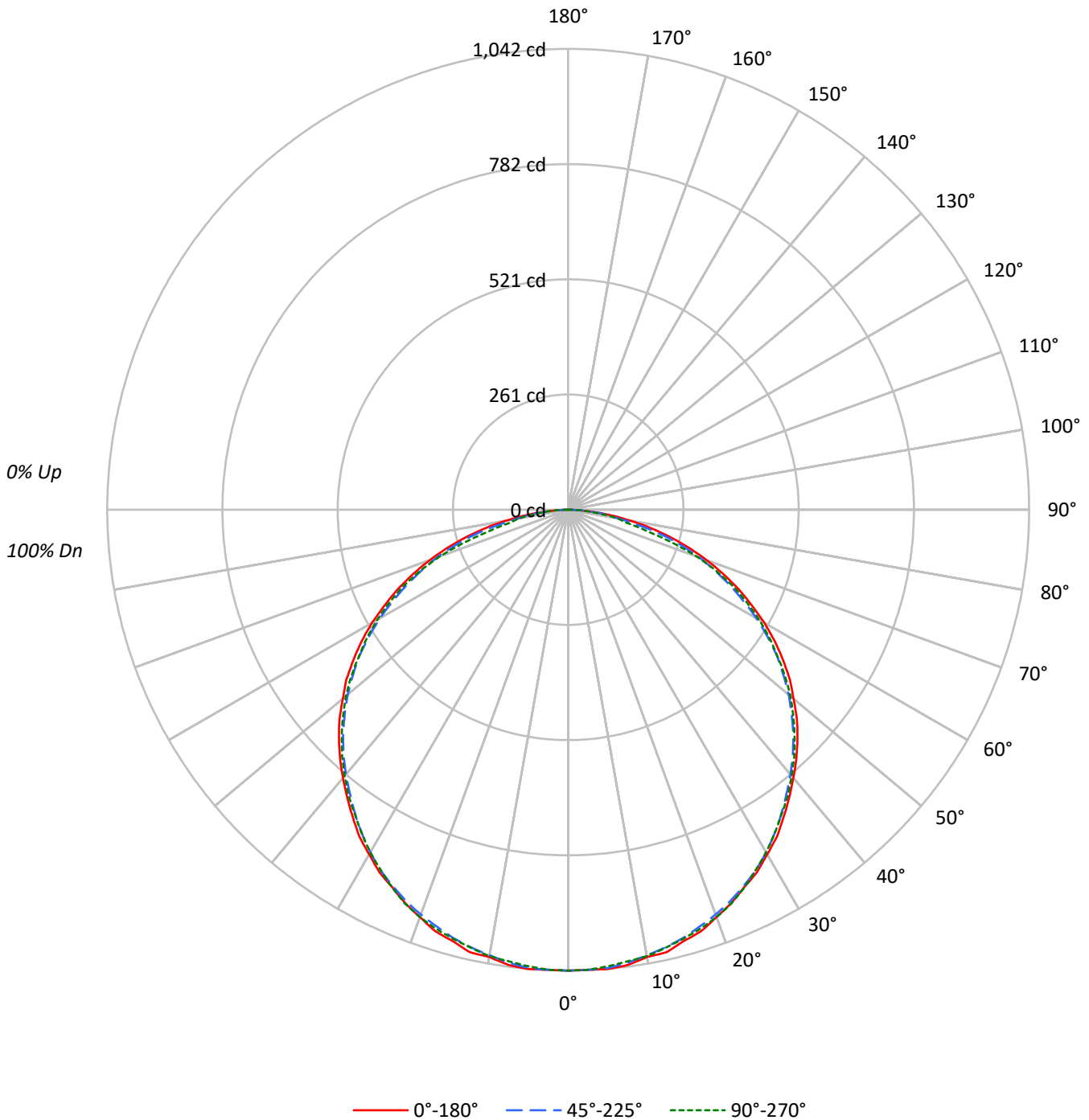
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1402	1402	1402
5°	1408	1405	1399
10°	1403	1398	1400
15°	1406	1397	1399
20°	1403	1395	1403
25°	1398	1393	1399
30°	1398	1390	1390
35°	1394	1379	1381
40°	1391	1373	1380
45°	1394	1369	1377
50°	1391	1361	1372
55°	1390	1351	1354
60°	1378	1323	1342
65°	1351	1280	1312
70°	1309	1241	1213
75°	1233	1143	937
80°	1096	891	868
85°	895	801	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	3.2
10°-20°	283.4	9.1
20°-30°	433.1	13.9
30°-40°	527.9	17.0
40°-50°	557.1	17.9
50°-60°	517.3	16.6
60°-70°	405.1	13.0
70°-80°	226.5	7.3
80°-90°	60.3	1.9
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°	815.3	26.2
0°-40°	1343.2	43.2
0°-60°	2417.6	77.7
0°-90°	3109.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3109.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1042	1041	1040	1040	1036	99
15°	1010	1004	1003	1002	1005	285
25°	942	940	938	935	942	435
35°	849	846	840	843	841	531
45°	733	725	720	716	724	565
55°	592	584	576	573	577	529
65°	424	415	402	406	412	419
75°	237	230	220	188	180	250
85°	58	52	52	49	47	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1041.2	1043.3	1041.2	1039.2	1041.2
5°	1042.3	1041.2	1040.2	1040.2	1036.1
7.5°	1038.2	1036.1	1033.1	1034.1	1030.0
10°	1027.0	1027.0	1022.9	1026.0	1025.0
12.5°	1025.0	1014.8	1013.8	1014.8	1014.8
15°	1009.7	1003.6	1002.6	1001.5	1004.6
17.5°	999.5	989.3	988.3	986.3	993.4
20°	980.2	974.1	974.1	971.0	980.2
22.5°	962.9	956.8	957.8	953.7	963.9
25°	941.5	940.5	938.4	935.4	942.5
27.5°	924.2	920.1	919.1	916.0	918.1
30°	899.8	898.7	894.7	893.7	894.7
32.5°	877.4	874.3	868.2	869.2	868.2
35°	848.9	845.8	839.7	842.8	840.7
37.5°	820.4	817.3	810.2	813.2	815.3
40°	791.9	787.8	781.7	784.7	785.8
42.5°	763.4	756.2	751.2	749.1	756.2
45°	732.8	724.7	719.6	715.5	723.7
47.5°	701.3	692.1	685.0	683.0	690.1
50°	664.6	657.5	650.4	647.3	655.5
52.5°	632.1	620.9	612.7	610.7	617.8
55°	592.4	584.2	576.1	573.0	577.1
57.5°	553.7	544.5	533.3	533.3	539.4
60°	512.0	502.8	491.6	492.6	498.7
62.5°	467.2	461.1	445.8	449.9	456.0
65°	424.4	415.3	402.0	406.1	412.2
67.5°	378.6	370.5	358.3	359.3	362.3
70°	332.8	322.7	315.5	308.4	308.4
72.5°	285.0	276.8	268.7	249.4	245.3
75°	237.2	230.0	219.9	188.3	180.2
77.5°	190.3	185.2	165.9	136.4	133.3
80°	141.5	140.5	115.0	112.0	112.0
82.5°	97.7	93.6	87.5	81.4	78.4
85°	58.0	51.9	51.9	48.9	46.8
87.5°	18.3	21.4	21.4	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)