

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: P393418

Luminaire Tested: **24EN-LD2-30-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393418
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 (2700K)
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: 2947.6 lumens
Efficiency: N/A
Efficacy: 143.1 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

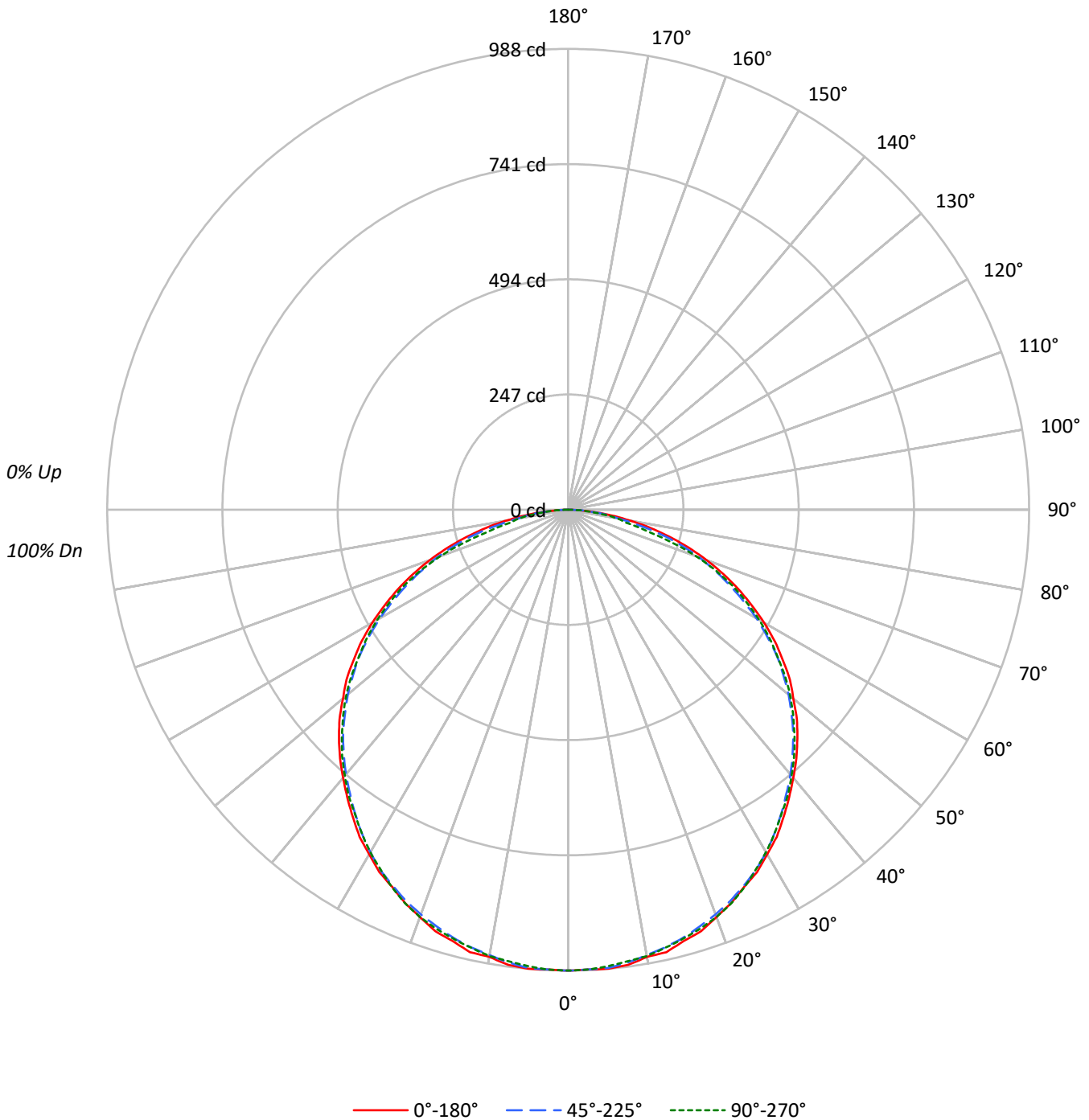
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1329	1329	1329
5°	1334	1332	1327
10°	1330	1325	1327
15°	1333	1324	1327
20°	1330	1322	1330
25°	1325	1321	1326
30°	1325	1318	1318
35°	1322	1307	1309
40°	1318	1302	1308
45°	1322	1298	1305
50°	1319	1290	1301
55°	1317	1281	1283
60°	1306	1254	1272
65°	1281	1213	1244
70°	1241	1177	1150
75°	1169	1083	888
80°	1039	845	822
85°	849	760	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.2
10°-20°	268.7	9.1
20°-30°	410.5	13.9
30°-40°	500.4	17.0
40°-50°	528.1	17.9
50°-60°	490.3	16.6
60°-70°	384.0	13.0
70°-80°	214.7	7.3
80°-90°	57.2	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°	772.8	26.2
0°-40°	1273.2	43.2
0°-60°	2291.7	77.7
0°-90°	2947.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2947.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	988	987	986	986	982	94
15°	957	951	950	949	952	271
25°	892	892	890	887	893	412
35°	805	802	796	799	797	504
45°	695	687	682	678	686	536
55°	562	554	546	543	547	502
65°	402	394	381	385	391	397
75°	225	218	208	178	171	237
85°	55	49	49	46	44	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.0	988.0	988.0	988.0	988.0
2.5°	987.0	988.9	987.0	985.1	987.0
5°	988.0	987.0	986.0	986.0	982.2
7.5°	984.1	982.2	979.3	980.3	976.4
10°	973.5	973.5	969.6	972.5	971.6
12.5°	971.6	961.9	961.0	961.9	961.9
15°	957.1	951.3	950.4	949.4	952.3
17.5°	947.5	937.8	936.8	934.9	941.7
20°	929.1	923.3	923.3	920.4	929.1
22.5°	912.7	906.9	907.9	904.0	913.7
25°	892.5	891.5	889.6	886.7	893.4
27.5°	876.1	872.2	871.2	868.3	870.3
30°	852.9	851.9	848.1	847.1	848.1
32.5°	831.7	828.8	823.0	824.0	823.0
35°	804.7	801.8	796.0	798.9	796.9
37.5°	777.6	774.8	768.0	770.9	772.8
40°	750.6	746.8	741.0	743.9	744.8
42.5°	723.6	716.9	712.0	710.1	716.9
45°	694.7	687.0	682.1	678.3	686.0
47.5°	664.8	656.1	649.3	647.4	654.1
50°	630.0	623.3	616.5	613.6	621.3
52.5°	599.2	588.5	580.8	578.9	585.6
55°	561.5	553.8	546.1	543.2	547.1
57.5°	524.9	516.2	505.6	505.6	511.4
60°	485.3	476.6	466.0	467.0	472.8
62.5°	442.9	437.1	422.6	426.5	432.2
65°	402.3	393.6	381.1	385.0	390.8
67.5°	358.9	351.2	339.6	340.6	343.5
70°	315.5	305.8	299.1	292.3	292.3
72.5°	270.2	262.4	254.7	236.4	232.5
75°	224.8	218.0	208.4	178.5	170.8
77.5°	180.4	175.6	157.3	129.3	126.4
80°	134.1	133.1	109.0	106.1	106.1
82.5°	92.6	88.8	83.0	77.2	74.3
85°	55.0	49.2	49.2	46.3	44.4
87.5°	17.4	20.3	20.3	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)