

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: P393413

Luminaire Tested: **24EN-LD2-30-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393413
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-L82765-W2A-1-U (4000K)
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2853.8 lumens
Efficiency: N/A
Efficacy: 136.5 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

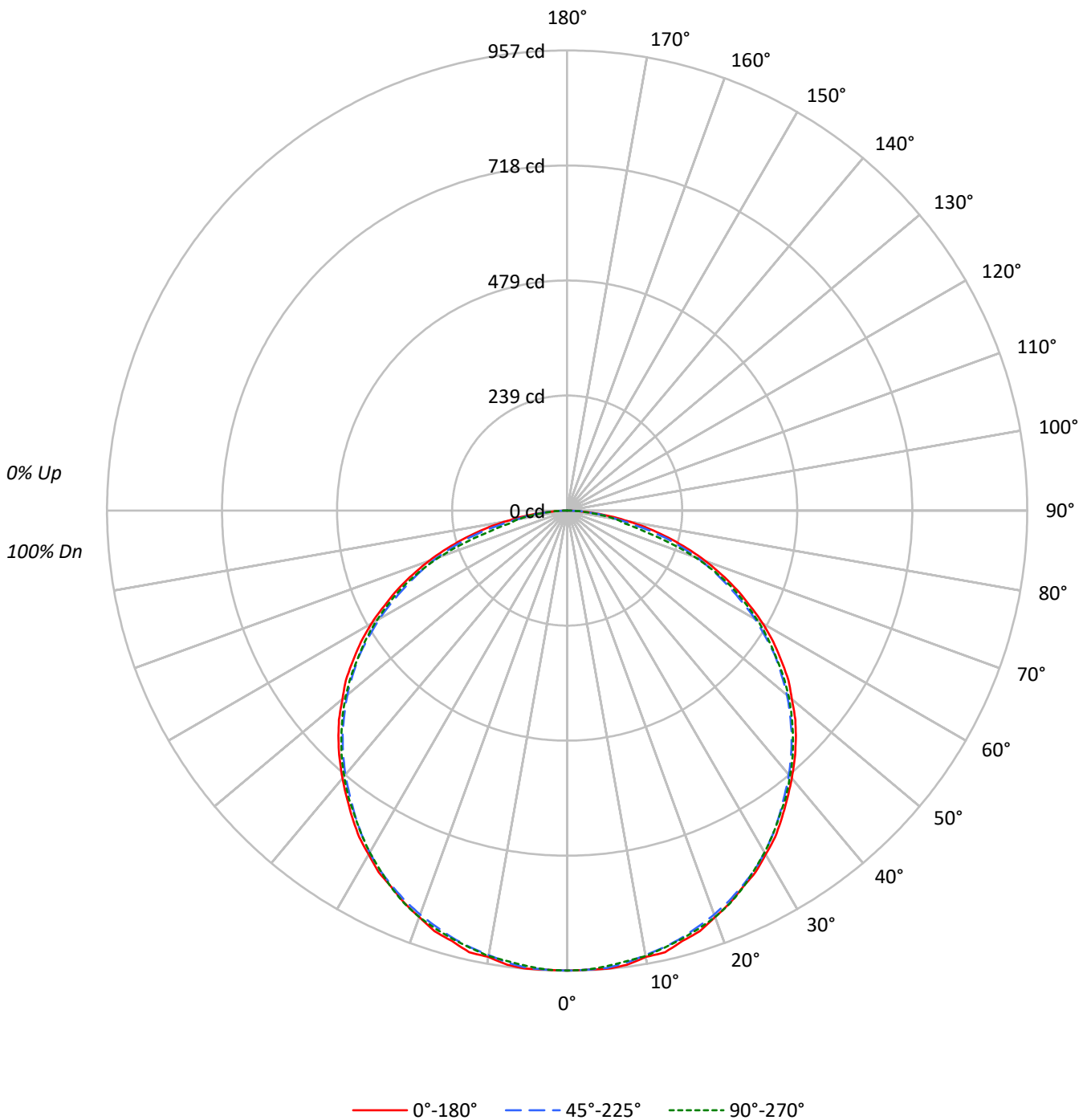
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1287	1287	1287
5°	1292	1289	1284
10°	1288	1283	1285
15°	1291	1282	1284
20°	1288	1280	1288
25°	1283	1279	1284
30°	1283	1276	1276
35°	1280	1266	1267
40°	1277	1260	1267
45°	1280	1257	1264
50°	1277	1249	1259
55°	1275	1240	1243
60°	1264	1214	1232
65°	1240	1175	1204
70°	1202	1139	1113
75°	1132	1049	859
80°	1006	818	797
85°	821	735	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.2
10°-20°	260.1	9.1
20°-30°	397.5	13.9
30°-40°	484.5	17.0
40°-50°	511.3	17.9
50°-60°	474.8	16.6
60°-70°	371.8	13.0
70°-80°	207.9	7.3
80°-90°	55.3	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°	748.2	26.2
0°-40°	1232.7	43.2
0°-60°	2218.8	77.7
0°-90°	2853.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2853.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	957	956	955	955	951	91
15°	927	921	920	919	922	262
25°	864	863	861	858	865	399
35°	779	776	771	774	772	488
45°	673	665	660	657	664	519
55°	544	536	529	526	530	486
65°	390	381	369	373	378	384
75°	218	211	202	173	165	230
85°	53	48	48	45	43	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.6	956.6	956.6	956.6	956.6
2.5°	955.6	957.5	955.6	953.8	955.6
5°	956.6	955.6	954.7	954.7	951.0
7.5°	952.8	951.0	948.2	949.1	945.4
10°	942.6	942.6	938.8	941.6	940.7
12.5°	940.7	931.3	930.4	931.3	931.3
15°	926.7	921.1	920.1	919.2	922.0
17.5°	917.3	908.0	907.1	905.2	911.7
20°	899.6	894.0	894.0	891.2	899.6
22.5°	883.7	878.1	879.0	875.3	884.6
25°	864.1	863.2	861.3	858.5	865.0
27.5°	848.2	844.5	843.5	840.7	842.6
30°	825.8	824.9	821.1	820.2	821.1
32.5°	805.2	802.4	796.8	797.8	796.8
35°	779.1	776.3	770.7	773.5	771.6
37.5°	752.9	750.1	743.6	746.4	748.3
40°	726.8	723.0	717.4	720.2	721.2
42.5°	700.6	694.1	689.4	687.5	694.1
45°	672.6	665.1	660.4	656.7	664.2
47.5°	643.6	635.2	628.7	626.8	633.4
50°	610.0	603.5	596.9	594.1	601.6
52.5°	580.1	569.8	562.4	560.5	567.0
55°	543.7	536.2	528.7	525.9	529.7
57.5°	508.2	499.8	489.5	489.5	495.1
60°	469.9	461.5	451.2	452.1	457.7
62.5°	428.8	423.2	409.2	412.9	418.5
65°	389.5	381.1	369.0	372.7	378.3
67.5°	347.5	340.0	328.8	329.8	332.6
70°	305.5	296.1	289.6	283.0	283.0
72.5°	261.6	254.1	246.6	228.9	225.1
75°	217.7	211.1	201.8	172.8	165.3
77.5°	174.7	170.0	152.3	125.2	122.4
80°	129.8	128.9	105.6	102.8	102.8
82.5°	89.7	85.9	80.3	74.7	71.9
85°	53.2	47.6	47.6	44.8	43.0
87.5°	16.8	19.6	19.6	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)