

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: P392871

Luminaire Tested: **12EN-LD2-31-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-31-UNV-L82765-W2A-1-U (5000K)
Description: 1X2 ENCOUNTER, 3100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3001.9 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

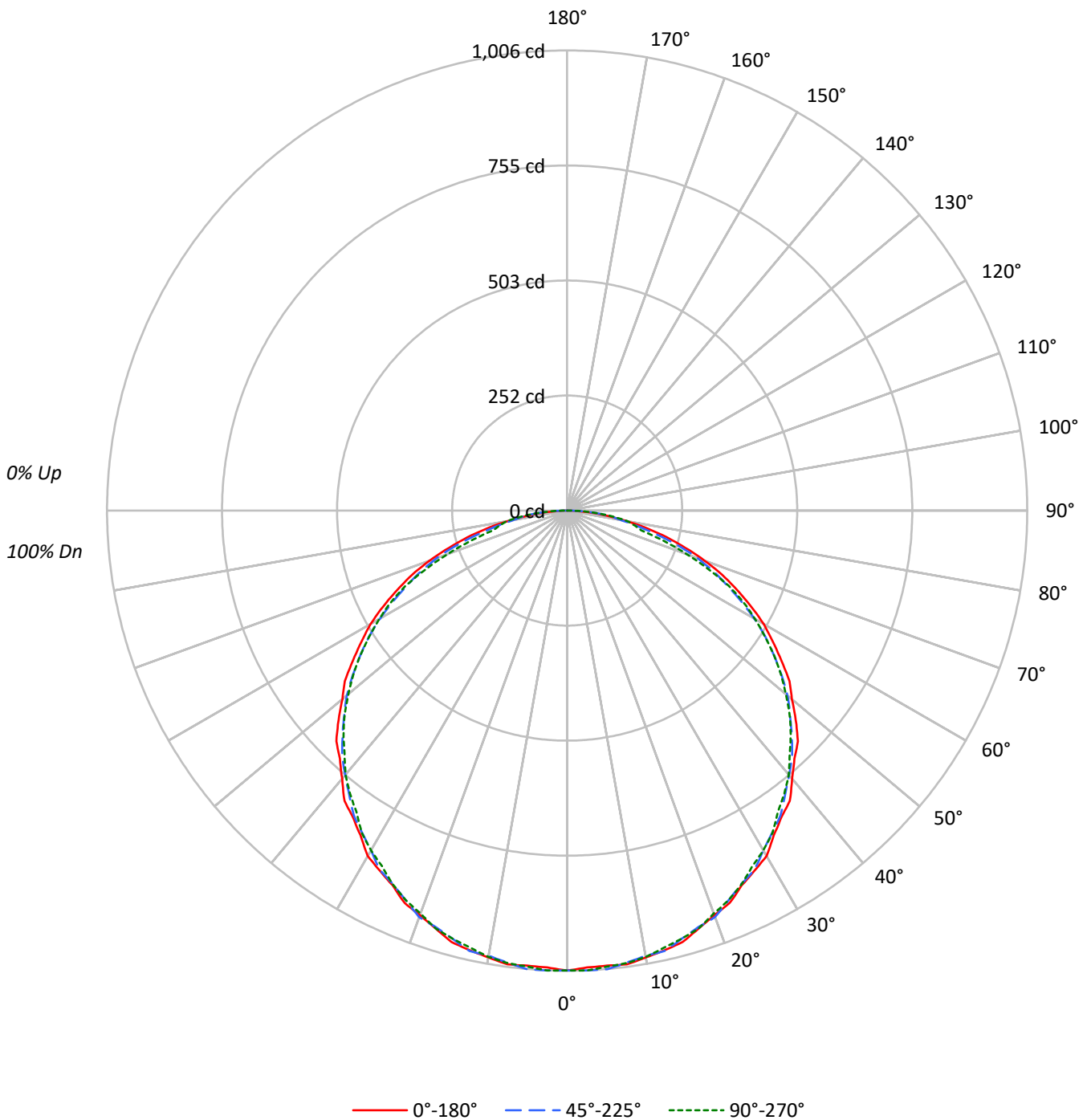
Input Watts (W): 26.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	41	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	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5411	5411	5411
5°	5395	5437	5406
10°	5421	5400	5416
15°	5441	5399	5399
20°	5390	5418	5368
25°	5366	5349	5355
30°	5418	5329	5329
35°	5369	5344	5280
40°	5377	5303	5296
45°	5431	5284	5262
50°	5371	5267	5226
55°	5362	5181	5181
60°	5344	5086	5106
65°	5210	4904	4965
70°	5032	4760	4367
75°	4693	4234	3493
80°	4079	3660	4138
85°	3205	3971	4032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	3.2
10°-20°	274.0	9.1
20°-30°	416.8	13.9
30°-40°	508.0	16.9
40°-50°	537.9	17.9
50°-60°	498.1	16.6
60°-70°	387.6	12.9
70°-80°	216.9	7.2
80°-90°	67.3	2.2
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°	786.1	26.2
0°-40°	1294.1	43.1
0°-60°	2330.1	77.6
0°-90°	3001.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	999	1005	1006	1007	1001	95
15°	977	971	969	967	969	275
25°	904	902	901	900	902	419
35°	817	817	813	808	804	513
45°	714	708	694	690	691	547
55°	571	567	552	549	552	511
65°	409	400	385	386	390	405
75°	226	218	204	182	168	237
85°	52	54	64	64	65	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.4	1005.4	1005.4	1005.4	1005.4
2.5°	999.6	1003.5	1006.4	1006.4	1006.4
5°	998.7	1005.4	1006.4	1007.3	1000.6
7.5°	1000.6	995.8	996.8	994.8	997.7
10°	992.0	987.2	988.1	990.0	991.0
12.5°	984.3	985.2	986.2	985.2	978.5
15°	976.6	970.8	968.9	967.0	968.9
17.5°	957.4	953.6	954.5	955.5	957.4
20°	941.1	945.9	945.9	943.9	937.2
22.5°	928.6	927.6	921.9	919.0	921.9
25°	903.6	901.7	900.7	899.8	901.7
27.5°	887.3	887.3	886.3	882.5	876.7
30°	871.9	867.1	857.5	855.6	857.5
32.5°	841.2	837.4	834.5	830.6	835.4
35°	817.2	817.2	813.4	808.5	803.7
37.5°	799.9	794.1	782.6	778.8	779.7
40°	765.3	761.5	754.8	750.0	753.8
42.5°	735.6	734.6	727.9	722.1	720.2
45°	713.5	707.7	694.3	690.4	691.4
47.5°	678.0	672.2	660.7	656.8	659.7
50°	641.5	637.6	629.0	623.2	624.2
52.5°	612.7	605.0	590.6	588.6	589.6
55°	571.4	566.6	552.2	549.3	552.2
57.5°	533.0	527.2	513.7	508.0	512.8
60°	496.5	487.8	472.5	470.5	474.4
62.5°	453.2	446.5	428.3	429.2	435.0
65°	409.1	399.5	385.1	386.0	389.9
67.5°	366.8	356.3	344.7	339.0	334.2
70°	319.8	312.1	302.5	284.2	277.5
72.5°	270.8	264.1	255.4	227.6	222.8
75°	225.7	218.0	203.6	182.5	168.0
77.5°	177.7	173.8	156.5	146.9	151.7
80°	131.6	131.6	118.1	128.7	133.5
82.5°	88.3	87.4	97.0	101.8	100.8
85°	51.9	53.8	64.3	64.3	65.3
87.5°	22.1	25.0	29.8	30.7	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)