

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: P393461

Luminaire Tested: **24EN-LD2-34-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-32)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-34-UNV-L92765-W2A-1-U (4000K)
Description: 2X4 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2862.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

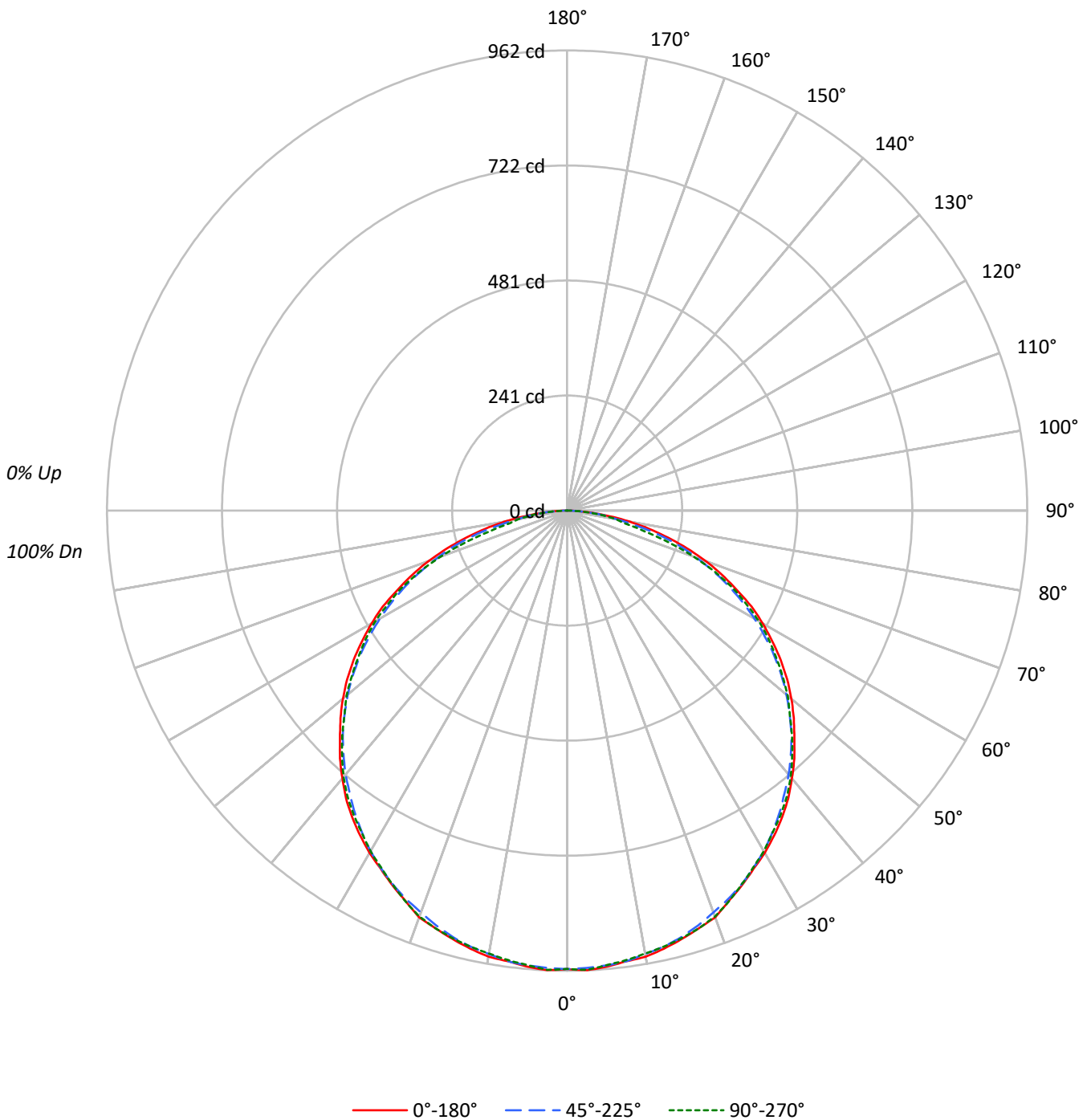
Input Watts (W): 23.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1290	1290	1290
5°	1292	1289	1288
10°	1294	1286	1285
15°	1291	1286	1289
20°	1296	1280	1293
25°	1283	1281	1281
30°	1284	1277	1277
35°	1286	1270	1277
40°	1284	1265	1277
45°	1278	1262	1265
50°	1281	1253	1260
55°	1278	1240	1249
60°	1271	1217	1246
65°	1243	1185	1214
70°	1210	1135	1109
75°	1135	1049	873
80°	1019	821	807
85°	804	741	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	3.2
10°-20°	260.8	9.1
20°-30°	397.8	13.9
30°-40°	485.3	17.0
40°-50°	513.5	17.9
50°-60°	475.9	16.6
60°-70°	373.8	13.1
70°-80°	208.5	7.3
80°-90°	55.7	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°	749.3	26.2
0°-40°	1234.6	43.1
0°-60°	2224.0	77.7
0°-90°	2862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	957	956	954	954	954	91
15°	927	925	923	920	926	262
25°	864	863	863	861	863	399
35°	783	777	773	772	777	490
45°	672	669	663	663	665	519
55°	545	536	528	528	533	487
65°	390	383	372	375	381	387
75°	218	210	202	176	168	231
85°	52	48	48	45	44	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.5	958.5	958.5	958.5	958.5
2.5°	961.8	958.5	956.9	958.5	961.0
5°	956.9	956.1	954.4	953.6	953.6
7.5°	950.3	951.9	950.3	947.8	947.8
10°	947.0	945.3	941.2	940.3	940.3
12.5°	937.9	935.4	933.7	930.4	933.7
15°	927.1	924.6	923.0	920.5	925.5
17.5°	915.5	909.7	909.7	909.7	915.5
20°	904.8	896.5	894.0	895.7	903.1
22.5°	883.3	880.0	879.1	880.8	884.1
25°	864.3	862.6	862.6	860.9	862.6
27.5°	844.4	844.4	842.8	841.1	841.9
30°	826.2	823.7	822.1	820.4	822.1
32.5°	805.5	801.4	798.1	797.3	798.9
35°	783.2	777.4	773.3	771.6	777.4
37.5°	759.2	750.9	746.0	746.0	754.3
40°	731.1	722.0	720.3	719.5	727.0
42.5°	703.0	696.4	692.2	693.1	696.4
45°	671.6	669.1	663.3	663.3	664.9
47.5°	642.6	639.3	631.0	632.7	631.0
50°	612.0	606.2	598.8	596.3	602.1
52.5°	579.8	573.1	564.0	562.4	567.3
55°	545.0	535.9	528.5	527.6	532.6
57.5°	508.6	499.5	490.4	490.4	498.7
60°	472.2	463.1	452.4	452.4	463.1
62.5°	434.2	424.3	412.7	415.2	421.8
65°	390.4	382.9	372.2	374.6	381.3
67.5°	349.8	341.6	330.0	333.3	333.3
70°	307.7	296.9	288.6	283.7	282.0
72.5°	263.0	253.9	248.1	229.9	225.0
75°	218.3	210.1	201.8	176.2	167.9
77.5°	175.3	169.5	153.0	125.7	122.4
80°	131.5	129.0	105.9	104.2	104.2
82.5°	89.3	87.7	79.4	75.3	74.4
85°	52.1	48.0	48.0	44.7	43.8
87.5°	18.2	19.0	20.7	19.8	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)