

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: P393473

Luminaire Tested: **24EN-LD2-34-UNV-L93050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393473
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-L93050-W2A-1-U (6500K)
Description: 2X4 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3052.8 lumens
Efficiency: N/A
Efficacy: 131.0 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

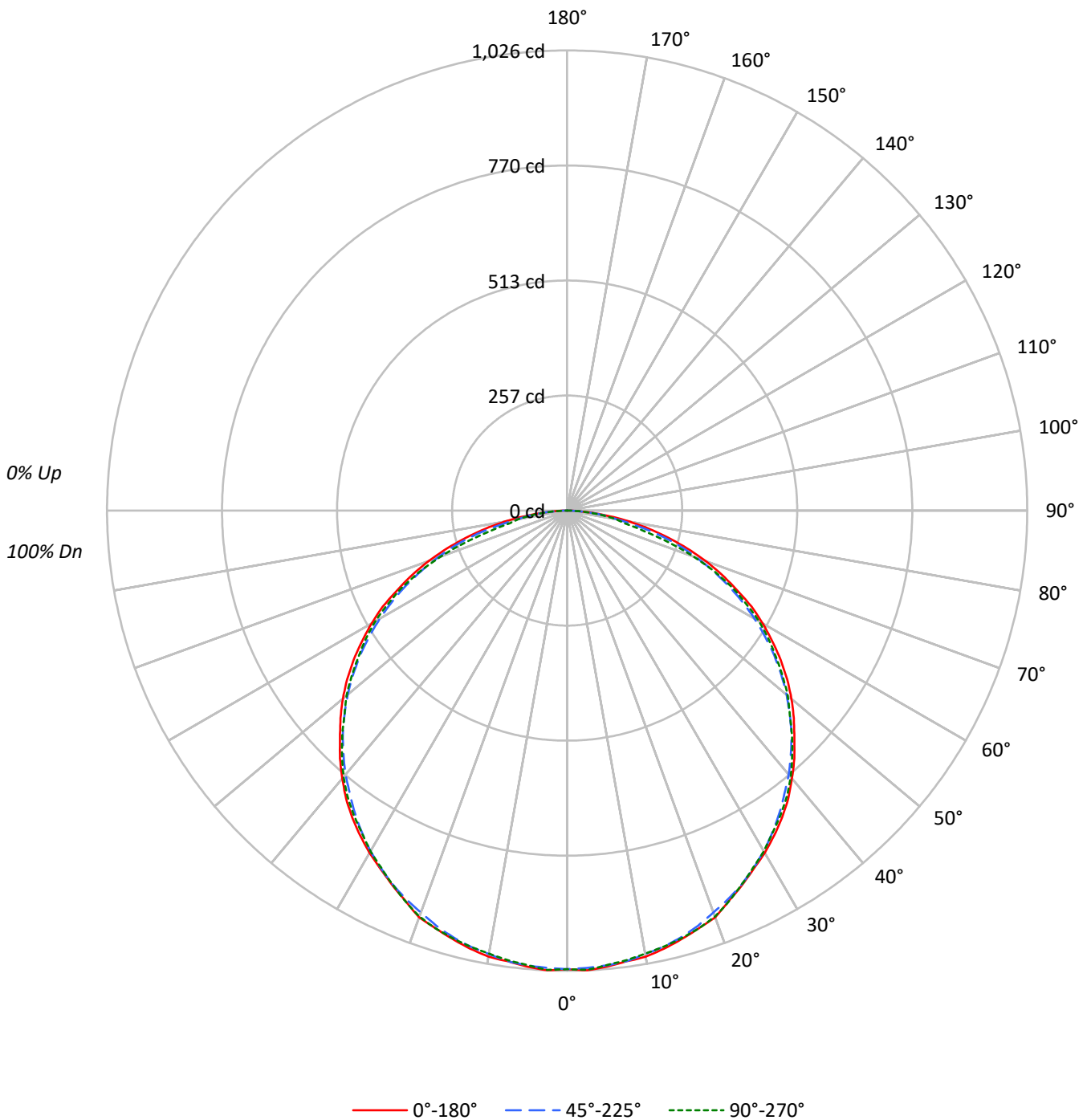
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1376	1376	1376
5°	1378	1375	1374
10°	1380	1372	1370
15°	1377	1371	1375
20°	1382	1365	1379
25°	1368	1366	1366
30°	1369	1362	1362
35°	1372	1355	1362
40°	1370	1350	1362
45°	1363	1346	1349
50°	1366	1337	1344
55°	1364	1322	1333
60°	1355	1298	1329
65°	1326	1264	1295
70°	1291	1211	1183
75°	1211	1119	931
80°	1087	875	862
85°	858	790	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.2
10°-20°	278.1	9.1
20°-30°	424.3	13.9
30°-40°	517.7	17.0
40°-50°	547.7	17.9
50°-60°	507.7	16.6
60°-70°	398.7	13.1
70°-80°	222.4	7.3
80°-90°	59.4	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°	799.2	26.2
0°-40°	1316.9	43.1
0°-60°	2372.2	77.7
0°-90°	3052.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3052.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1021	1020	1018	1017	1017	97
15°	989	986	984	982	987	279
25°	922	920	920	918	920	426
35°	835	829	825	823	829	523
45°	716	714	708	708	709	554
55°	581	572	564	563	568	519
65°	416	408	397	400	407	413
75°	233	224	215	188	179	246
85°	56	51	51	48	47	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.4	1022.4	1022.4	1022.4	1022.4
2.5°	1025.9	1022.4	1020.6	1022.4	1025.1
5°	1020.6	1019.8	1018.0	1017.1	1017.1
7.5°	1013.6	1015.4	1013.6	1010.9	1010.9
10°	1010.1	1008.3	1003.9	1003.0	1003.0
12.5°	1000.4	997.7	995.9	992.4	995.9
15°	988.9	986.2	984.5	981.8	987.1
17.5°	976.5	970.4	970.4	970.4	976.5
20°	965.1	956.2	953.6	955.4	963.3
22.5°	942.1	938.6	937.7	939.5	943.0
25°	921.8	920.1	920.1	918.3	920.1
27.5°	900.7	900.7	898.9	897.1	898.0
30°	881.3	878.6	876.9	875.1	876.9
32.5°	859.2	854.8	851.3	850.4	852.2
35°	835.4	829.2	824.8	823.0	829.2
37.5°	809.8	801.0	795.7	795.7	804.5
40°	779.8	770.1	768.4	767.5	775.4
42.5°	749.8	742.8	738.4	739.2	742.8
45°	716.3	713.7	707.5	707.5	709.2
47.5°	685.4	681.9	673.1	674.8	673.1
50°	652.8	646.6	638.7	636.0	642.2
52.5°	618.4	611.3	601.6	599.9	605.2
55°	581.3	571.6	563.7	562.8	568.1
57.5°	542.5	532.8	523.1	523.1	531.9
60°	503.7	494.0	482.5	482.5	494.0
62.5°	463.1	452.5	440.2	442.8	449.9
65°	416.4	408.4	397.0	399.6	406.7
67.5°	373.1	364.3	352.0	355.5	355.5
70°	328.2	316.7	307.9	302.6	300.8
72.5°	280.5	270.8	264.6	245.2	239.9
75°	232.9	224.1	215.2	187.9	179.1
77.5°	187.0	180.8	163.2	134.1	130.6
80°	140.3	137.6	112.9	111.2	111.2
82.5°	95.3	93.5	84.7	80.3	79.4
85°	55.6	51.2	51.2	47.6	46.8
87.5°	19.4	20.3	22.1	21.2	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)