

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: P393447

Luminaire Tested: **24EN-LD2-34-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393447
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-L82765-W2A-1-U (5000K)
Description: 2X4 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3323.1 lumens
Efficiency: N/A
Efficacy: 140.8 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

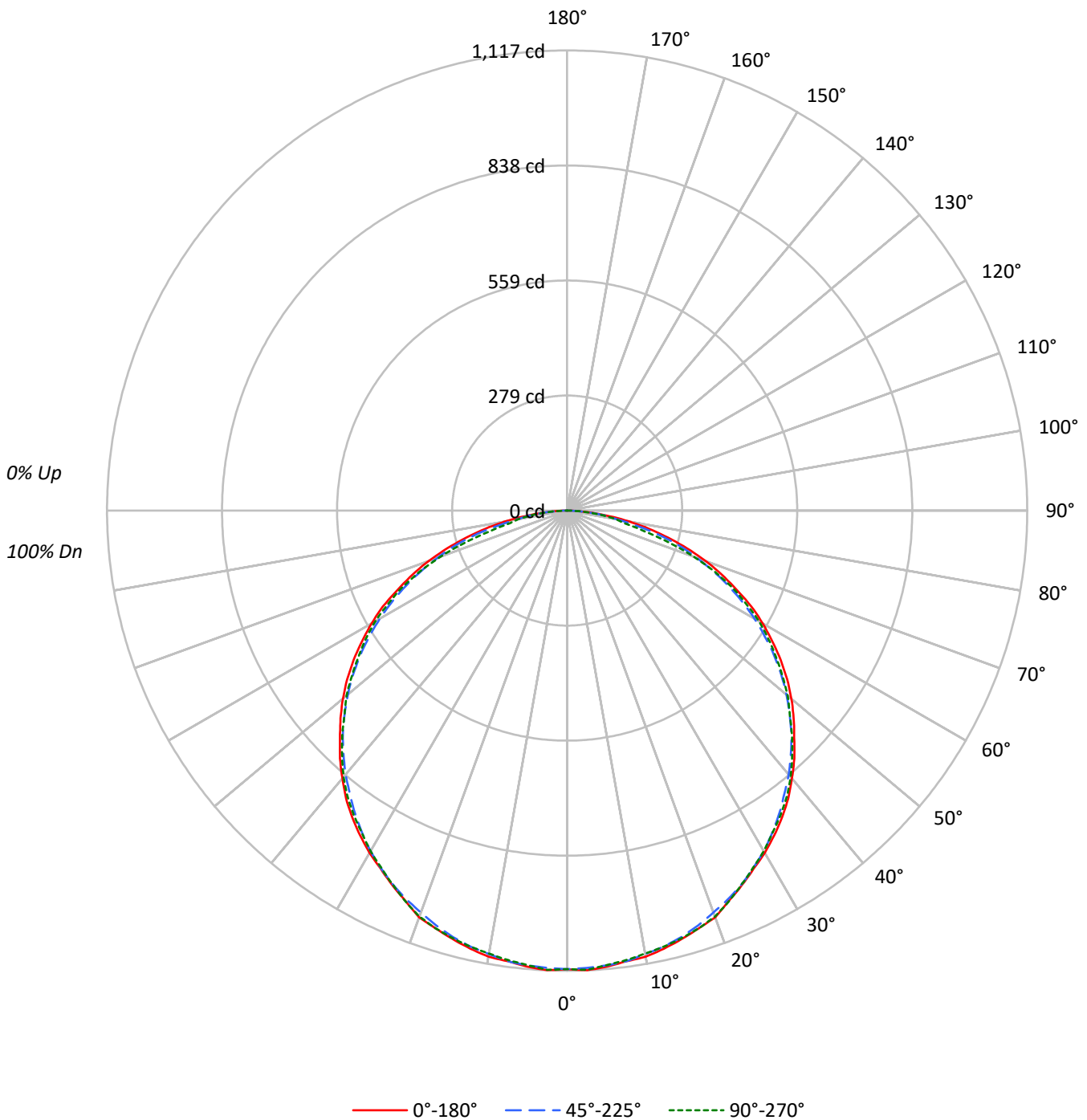
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1498	1498	1498
5°	1501	1497	1495
10°	1502	1493	1492
15°	1500	1493	1497
20°	1504	1486	1501
25°	1490	1487	1487
30°	1490	1483	1483
35°	1494	1475	1483
40°	1491	1469	1483
45°	1484	1465	1469
50°	1487	1455	1463
55°	1484	1439	1451
60°	1475	1414	1447
65°	1443	1376	1409
70°	1405	1318	1288
75°	1318	1218	1013
80°	1183	952	938
85°	934	860	786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	3.2
10°-20°	302.8	9.1
20°-30°	461.8	13.9
30°-40°	563.5	17.0
40°-50°	596.2	17.9
50°-60°	552.6	16.6
60°-70°	434.0	13.1
70°-80°	242.1	7.3
80°-90°	64.7	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°	870.0	26.2
0°-40°	1433.5	43.1
0°-60°	2582.3	77.7
0°-90°	3323.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1111	1110	1108	1107	1107	106
15°	1076	1074	1072	1069	1074	304
25°	1004	1002	1002	1000	1002	463
35°	909	903	898	896	903	569
45°	780	777	770	770	772	603
55°	633	622	614	613	618	565
65°	453	445	432	435	443	449
75°	254	244	234	204	195	268
85°	60	56	56	52	51	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1113.0	1113.0	1113.0	1113.0	1113.0
2.5°	1116.8	1113.0	1111.0	1113.0	1115.8
5°	1111.0	1110.1	1108.2	1107.2	1107.2
7.5°	1103.4	1105.3	1103.4	1100.5	1100.5
10°	1099.5	1097.6	1092.8	1091.8	1091.8
12.5°	1088.9	1086.1	1084.1	1080.3	1084.1
15°	1076.5	1073.6	1071.7	1068.8	1074.5
17.5°	1063.0	1056.3	1056.3	1056.3	1063.0
20°	1050.5	1040.9	1038.1	1040.0	1048.6
22.5°	1025.6	1021.7	1020.8	1022.7	1026.5
25°	1003.5	1001.6	1001.6	999.6	1001.6
27.5°	980.4	980.4	978.5	976.6	977.6
30°	959.3	956.4	954.5	952.6	954.5
32.5°	935.3	930.5	926.7	925.7	927.6
35°	909.4	902.7	897.9	895.9	902.7
37.5°	881.5	871.9	866.2	866.2	875.8
40°	848.9	838.3	836.4	835.4	844.1
42.5°	816.2	808.5	803.7	804.7	808.5
45°	779.7	776.9	770.1	770.1	772.1
47.5°	746.1	742.3	732.7	734.6	732.7
50°	710.6	703.9	695.2	692.4	699.1
52.5°	673.2	665.5	654.9	653.0	658.7
55°	632.8	622.3	613.6	612.7	618.4
57.5°	590.6	580.0	569.4	569.4	579.0
60°	548.3	537.8	525.3	525.3	537.8
62.5°	504.1	492.6	479.2	482.1	489.7
65°	453.2	444.6	432.1	435.0	442.7
67.5°	406.2	396.6	383.1	387.0	387.0
70°	357.2	344.7	335.1	329.4	327.5
72.5°	305.4	294.8	288.1	267.0	261.2
75°	253.5	243.9	234.3	204.5	194.9
77.5°	203.6	196.9	177.7	146.0	142.1
80°	152.7	149.8	122.9	121.0	121.0
82.5°	103.7	101.8	92.2	87.4	86.4
85°	60.5	55.7	55.7	51.9	50.9
87.5°	21.1	22.1	24.0	23.0	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)