

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: P393442

Luminaire Tested: **24EN-LD2-34-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393442
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 (2700K)
Description: 2X4 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3143.7 lumens
Efficiency: N/A
Efficacy: 132.6 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

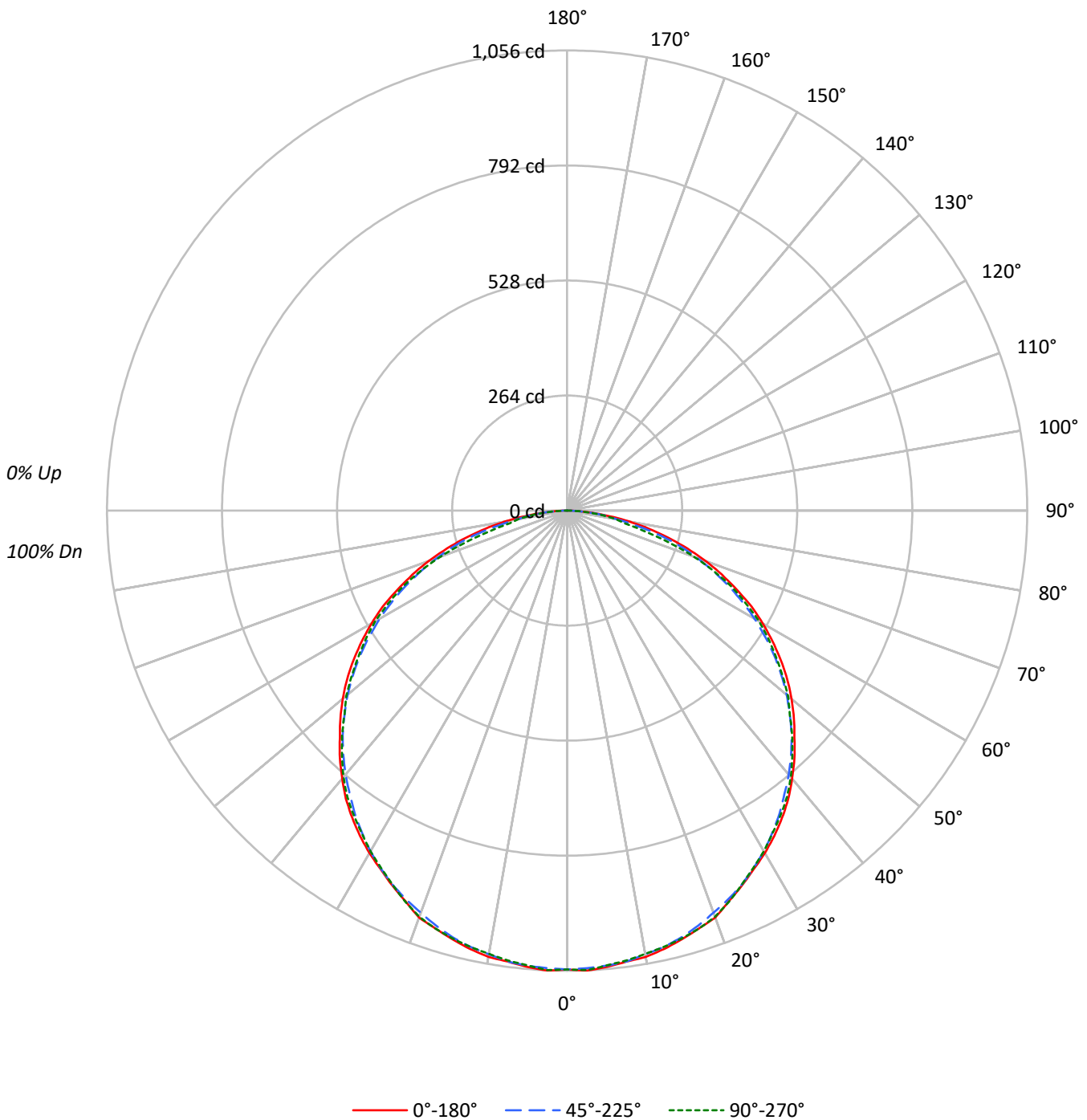
Input Watts (W): 23.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1417	1417	1417
5°	1420	1416	1415
10°	1421	1412	1411
15°	1419	1412	1416
20°	1423	1406	1420
25°	1409	1407	1407
30°	1410	1403	1403
35°	1413	1395	1403
40°	1411	1390	1402
45°	1404	1386	1390
50°	1407	1377	1384
55°	1404	1362	1372
60°	1396	1337	1369
65°	1365	1301	1333
70°	1329	1247	1219
75°	1247	1153	959
80°	1119	901	887
85°	883	814	743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.2
10°-20°	286.4	9.1
20°-30°	436.9	13.9
30°-40°	533.1	17.0
40°-50°	564.0	17.9
50°-60°	522.8	16.6
60°-70°	410.6	13.1
70°-80°	229.1	7.3
80°-90°	61.2	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°	823.0	26.2
0°-40°	1356.1	43.1
0°-60°	2442.9	77.7
0°-90°	3143.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1051	1050	1048	1047	1047	100
15°	1018	1016	1014	1011	1016	288
25°	949	948	948	946	948	438
35°	860	854	849	848	854	538
45°	738	735	729	729	730	570
55°	599	589	580	580	585	535
65°	429	421	409	412	419	425
75°	240	231	222	194	184	254
85°	57	53	53	49	48	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1056.5	1052.9	1051.1	1052.9	1055.6
5°	1051.1	1050.1	1048.3	1047.4	1047.4
7.5°	1043.8	1045.6	1043.8	1041.1	1041.1
10°	1040.2	1038.3	1033.8	1032.9	1032.9
12.5°	1030.2	1027.4	1025.6	1022.0	1025.6
15°	1018.4	1015.6	1013.8	1011.1	1016.5
17.5°	1005.6	999.3	999.3	999.3	1005.6
20°	993.8	984.7	982.0	983.8	992.0
22.5°	970.2	966.6	965.7	967.5	971.1
25°	949.3	947.5	947.5	945.7	947.5
27.5°	927.5	927.5	925.7	923.9	924.8
30°	907.5	904.8	903.0	901.2	903.0
32.5°	884.8	880.3	876.6	875.7	877.5
35°	860.3	853.9	849.4	847.6	853.9
37.5°	833.9	824.9	819.4	819.4	828.5
40°	803.1	793.1	791.2	790.3	798.5
42.5°	772.2	764.9	760.4	761.3	764.9
45°	737.6	734.9	728.6	728.6	730.4
47.5°	705.9	702.2	693.1	694.9	693.1
50°	672.2	665.9	657.7	655.0	661.3
52.5°	636.8	629.5	619.5	617.7	623.2
55°	598.7	588.7	580.5	579.6	585.0
57.5°	558.7	548.7	538.7	538.7	547.8
60°	518.7	508.7	496.9	496.9	508.7
62.5°	476.9	466.0	453.3	456.0	463.3
65°	428.8	420.6	408.8	411.5	418.8
67.5°	384.3	375.2	362.5	366.1	366.1
70°	337.9	326.1	317.0	311.6	309.8
72.5°	288.9	278.9	272.5	252.5	247.1
75°	239.8	230.7	221.7	193.5	184.4
77.5°	192.6	186.2	168.1	138.1	134.4
80°	144.4	141.7	116.3	114.5	114.5
82.5°	98.1	96.3	87.2	82.7	81.8
85°	57.2	52.7	52.7	49.1	48.1
87.5°	20.0	20.9	22.7	21.8	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)