

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: P393468

Luminaire Tested: **24EN-LD2-34-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393468
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 (3500K)
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: 2910.1 lumens
Efficiency: N/A
Efficacy: 123.3 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

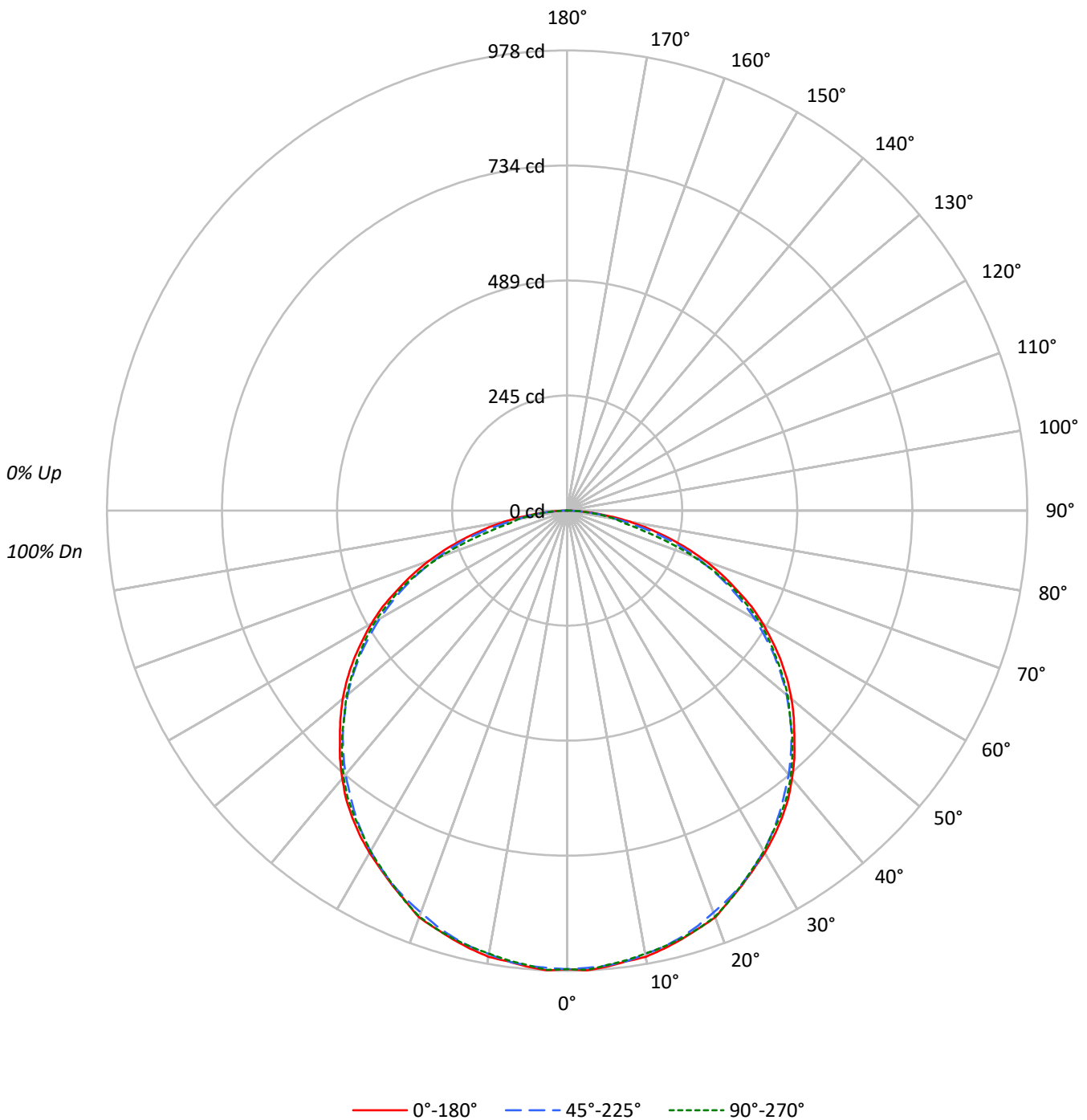
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1311	1311	1311
5°	1314	1311	1310
10°	1316	1307	1306
15°	1313	1307	1311
20°	1317	1302	1315
25°	1305	1302	1302
30°	1305	1299	1299
35°	1308	1292	1298
40°	1306	1286	1298
45°	1299	1283	1286
50°	1303	1274	1281
55°	1300	1261	1270
60°	1292	1238	1267
65°	1264	1205	1234
70°	1231	1155	1128
75°	1154	1067	887
80°	1036	834	821
85°	818	753	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.2
10°-20°	265.1	9.1
20°-30°	404.4	13.9
30°-40°	493.5	17.0
40°-50°	522.1	17.9
50°-60°	483.9	16.6
60°-70°	380.0	13.1
70°-80°	212.1	7.3
80°-90°	56.7	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°	761.9	26.2
0°-40°	1255.3	43.1
0°-60°	2261.4	77.7
0°-90°	2910.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2910.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	973	972	970	970	970	92
15°	943	940	938	936	941	266
25°	879	877	877	875	877	406
35°	796	790	786	785	790	498
45°	683	680	674	674	676	528
55°	554	545	537	536	542	495
65°	397	389	378	381	388	394
75°	222	214	205	179	171	235
85°	53	49	49	45	45	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	974.6	974.6	974.6	974.6	974.6
2.5°	978.0	974.6	973.0	974.6	977.2
5°	973.0	972.1	970.4	969.6	969.6
7.5°	966.2	967.9	966.2	963.7	963.7
10°	962.9	961.2	957.0	956.1	956.1
12.5°	953.6	951.1	949.4	946.0	949.4
15°	942.7	940.2	938.5	936.0	941.0
17.5°	930.9	925.0	925.0	925.0	930.9
20°	920.0	911.6	909.0	910.7	918.3
22.5°	898.1	894.7	893.9	895.6	899.0
25°	878.8	877.1	877.1	875.4	877.1
27.5°	858.6	858.6	856.9	855.2	856.1
30°	840.1	837.6	835.9	834.2	835.9
32.5°	819.1	814.9	811.5	810.7	812.3
35°	796.4	790.5	786.3	784.6	790.5
37.5°	772.0	763.6	758.5	758.5	766.9
40°	743.4	734.1	732.4	731.6	739.2
42.5°	714.8	708.1	703.9	704.7	708.1
45°	682.8	680.3	674.4	674.4	676.1
47.5°	653.4	650.0	641.6	643.3	641.6
50°	622.3	616.4	608.8	606.3	612.2
52.5°	589.5	582.8	573.5	571.8	576.9
55°	554.2	544.9	537.4	536.5	541.6
57.5°	517.2	507.9	498.7	498.7	507.1
60°	480.2	470.9	460.0	460.0	470.9
62.5°	441.5	431.4	419.6	422.1	428.9
65°	396.9	389.3	378.4	380.9	387.7
67.5°	355.7	347.3	335.5	338.9	338.9
70°	312.8	301.9	293.5	288.4	286.8
72.5°	267.4	258.2	252.3	233.8	228.7
75°	222.0	213.6	205.2	179.1	170.7
77.5°	178.3	172.4	155.6	127.8	124.5
80°	133.7	131.2	107.6	106.0	106.0
82.5°	90.8	89.1	80.7	76.5	75.7
85°	53.0	48.8	48.8	45.4	44.6
87.5°	18.5	19.3	21.0	20.2	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)