

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: P393464

Luminaire Tested: **24EN-LD2-34-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393464  
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 (5700K)  
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: 2961.8 lumens  
Efficiency: N/A  
Efficacy: 125.5 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

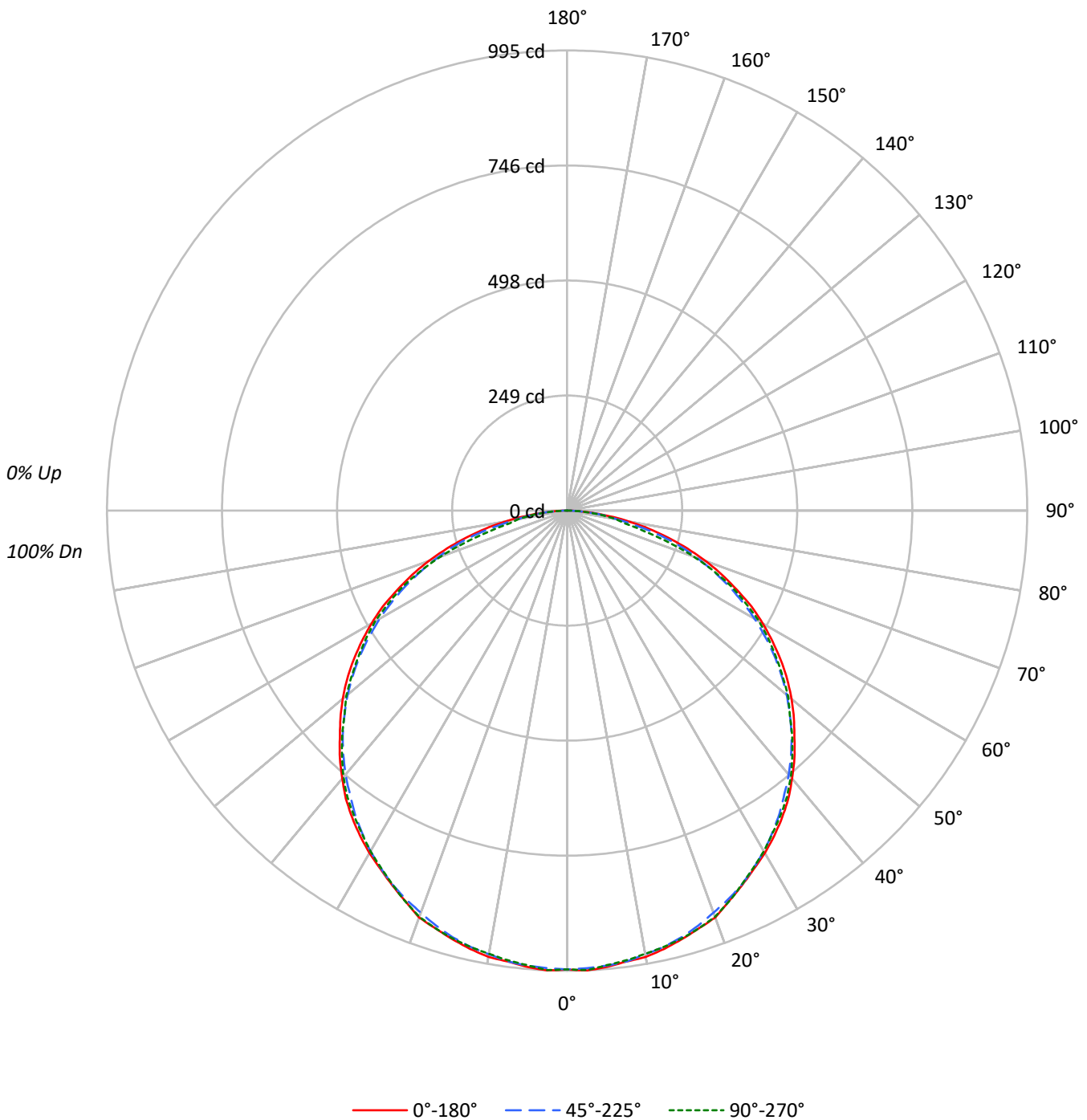
Input Watts (W): 23.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1335	1335	1335
5°	1337	1334	1333
10°	1339	1331	1329
15°	1336	1330	1334
20°	1341	1325	1338
25°	1328	1325	1325
30°	1328	1322	1322
35°	1331	1314	1321
40°	1329	1309	1321
45°	1322	1306	1309
50°	1326	1297	1304
55°	1323	1283	1293
60°	1315	1260	1290
65°	1286	1226	1256
70°	1253	1175	1148
75°	1174	1085	903
80°	1055	849	835
85°	832	766	701



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.9	3.2
10°-20°	269.8	9.1
20°-30°	411.6	13.9
30°-40°	502.2	17.0
40°-50°	531.4	17.9
50°-60°	492.5	16.6
60°-70°	386.8	13.1
70°-80°	215.8	7.3
80°-90°	57.7	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°	775.4	26.2
0°-40°	1277.6	43.1
0°-60°	2301.5	77.7
0°-90°	2961.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2961.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	990	989	988	987	987	94
15°	959	957	955	953	958	271
25°	894	893	893	891	893	413
35°	810	804	800	798	804	507
45°	695	692	686	686	688	537
55°	564	555	547	546	551	504
65°	404	396	385	388	395	401
75°	226	217	209	182	174	239
85°	54	50	50	46	45	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	992.0	992.0	992.0	992.0	992.0
2.5°	995.4	992.0	990.2	992.0	994.5
5°	990.2	989.4	987.7	986.8	986.8
7.5°	983.4	985.1	983.4	980.8	980.8
10°	980.0	978.3	974.0	973.1	973.1
12.5°	970.6	968.0	966.3	962.9	966.3
15°	959.4	956.9	955.1	952.6	957.7
17.5°	947.4	941.5	941.5	941.5	947.4
20°	936.3	927.8	925.2	926.9	934.6
22.5°	914.1	910.6	909.8	911.5	914.9
25°	894.4	892.7	892.7	891.0	892.7
27.5°	873.8	873.8	872.1	870.4	871.3
30°	855.0	852.4	850.7	849.0	850.7
32.5°	833.6	829.3	825.9	825.1	826.8
35°	810.5	804.5	800.2	798.5	804.5
37.5°	785.7	777.1	772.0	772.0	780.6
40°	756.6	747.2	745.5	744.6	752.3
42.5°	727.5	720.6	716.4	717.2	720.6
45°	695.0	692.4	686.4	686.4	688.1
47.5°	665.0	661.6	653.0	654.7	653.0
50°	633.3	627.4	619.6	617.1	623.1
52.5°	600.0	593.1	583.7	582.0	587.1
55°	564.0	554.6	546.9	546.0	551.2
57.5°	526.4	516.9	507.5	507.5	516.1
60°	488.7	479.3	468.2	468.2	479.3
62.5°	449.3	439.1	427.1	429.6	436.5
65°	404.0	396.3	385.1	387.7	394.6
67.5°	362.0	353.5	341.5	344.9	344.9
70°	318.4	307.3	298.7	293.6	291.9
72.5°	272.2	262.8	256.8	237.9	232.8
75°	225.9	217.4	208.8	182.3	173.7
77.5°	181.4	175.5	158.3	130.1	126.7
80°	136.1	133.5	109.6	107.8	107.8
82.5°	92.4	90.7	82.2	77.9	77.0
85°	53.9	49.6	49.6	46.2	45.4
87.5°	18.8	19.7	21.4	20.5	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)