

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: P393466

Luminaire Tested: **24EN-LD2-34-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393466  
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 (2700K)  
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: 2988.0 lumens  
Efficiency: N/A  
Efficacy: 126.6 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

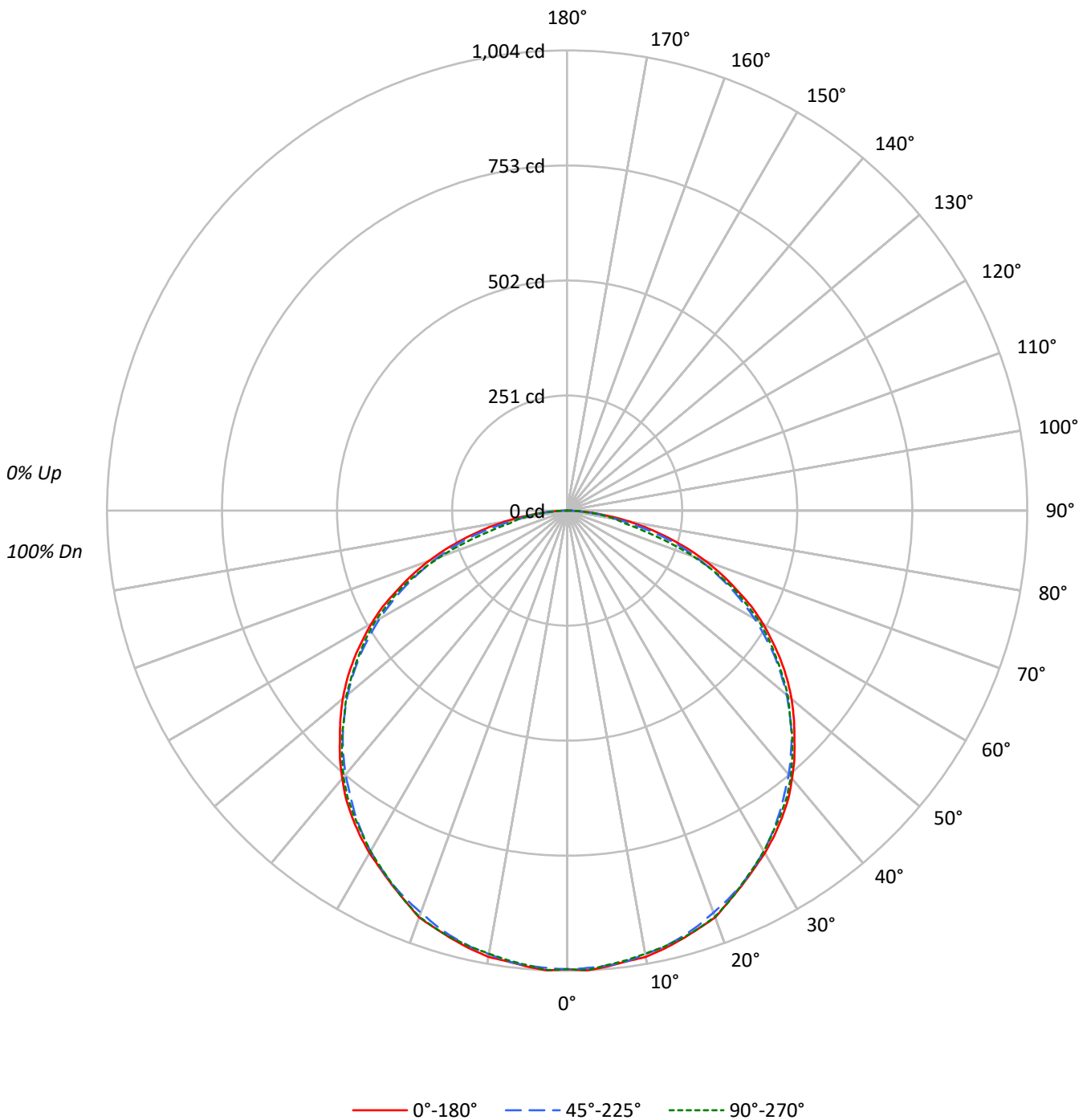
Input Watts (W): 23.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1346	1346	1346
5°	1349	1346	1345
10°	1351	1342	1341
15°	1348	1342	1346
20°	1353	1336	1350
25°	1340	1337	1337
30°	1340	1333	1333
35°	1343	1326	1333
40°	1341	1321	1333
45°	1334	1318	1321
50°	1337	1308	1316
55°	1335	1294	1304
60°	1327	1271	1301
65°	1297	1237	1267
70°	1264	1185	1158
75°	1185	1095	911
80°	1064	856	843
85°	840	773	707



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	3.2
10°-20°	272.2	9.1
20°-30°	415.3	13.9
30°-40°	506.7	17.0
40°-50°	536.1	17.9
50°-60°	496.9	16.6
60°-70°	390.2	13.1
70°-80°	217.7	7.3
80°-90°	58.2	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°	782.3	26.2
0°-40°	1288.9	43.1
0°-60°	2321.9	77.7
0°-90°	2988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	999	998	996	996	996	95
15°	968	965	964	961	966	274
25°	902	901	901	899	901	417
35°	818	812	807	806	812	511
45°	701	698	692	692	694	542
55°	569	560	552	551	556	508
65°	408	400	388	391	398	404
75°	228	219	211	184	175	241
85°	54	50	50	47	46	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1000.7	1000.7	1000.7	1000.7	1000.7
2.5°	1004.2	1000.7	999.0	1000.7	1003.3
5°	999.0	998.1	996.4	995.5	995.5
7.5°	992.1	993.8	992.1	989.5	989.5
10°	988.6	986.9	982.6	981.7	981.7
12.5°	979.1	976.5	974.8	971.4	974.8
15°	967.9	965.3	963.6	961.0	966.2
17.5°	955.8	949.8	949.8	949.8	955.8
20°	944.6	936.0	933.4	935.1	942.9
22.5°	922.1	918.7	917.8	919.6	923.0
25°	902.3	900.6	900.6	898.8	900.6
27.5°	881.6	881.6	879.8	878.1	879.0
30°	862.6	860.0	858.3	856.5	858.3
32.5°	841.0	836.7	833.2	832.3	834.1
35°	817.7	811.6	807.3	805.6	811.6
37.5°	792.6	784.0	778.8	778.8	787.4
40°	763.3	753.8	752.0	751.2	759.0
42.5°	733.9	727.0	722.7	723.6	727.0
45°	701.1	698.5	692.5	692.5	694.2
47.5°	670.9	667.4	658.8	660.5	658.8
50°	638.9	632.9	625.1	622.5	628.6
52.5°	605.3	598.4	588.9	587.1	592.3
55°	569.0	559.5	551.7	550.9	556.0
57.5°	531.0	521.5	512.0	512.0	520.6
60°	493.0	483.5	472.3	472.3	483.5
62.5°	453.3	442.9	430.9	433.4	440.4
65°	407.5	399.8	388.5	391.1	398.0
67.5°	365.2	356.6	344.5	348.0	348.0
70°	321.2	310.0	301.3	296.2	294.4
72.5°	274.6	265.1	259.0	240.0	234.9
75°	227.9	219.3	210.7	183.9	175.3
77.5°	183.0	177.0	159.7	131.2	127.8
80°	137.3	134.7	110.5	108.8	108.8
82.5°	93.3	91.5	82.9	78.6	77.7
85°	54.4	50.1	50.1	46.6	45.8
87.5°	19.0	19.9	21.6	20.7	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)