

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: P393439

Luminaire Tested: **24EN-LD2-30-UNV-L93050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-31)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24EN-LD2-30-UNV-L93050-W2A-1-U (5000K)  
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2695.0 lumens  
Efficiency: N/A  
Efficacy: 131.5 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

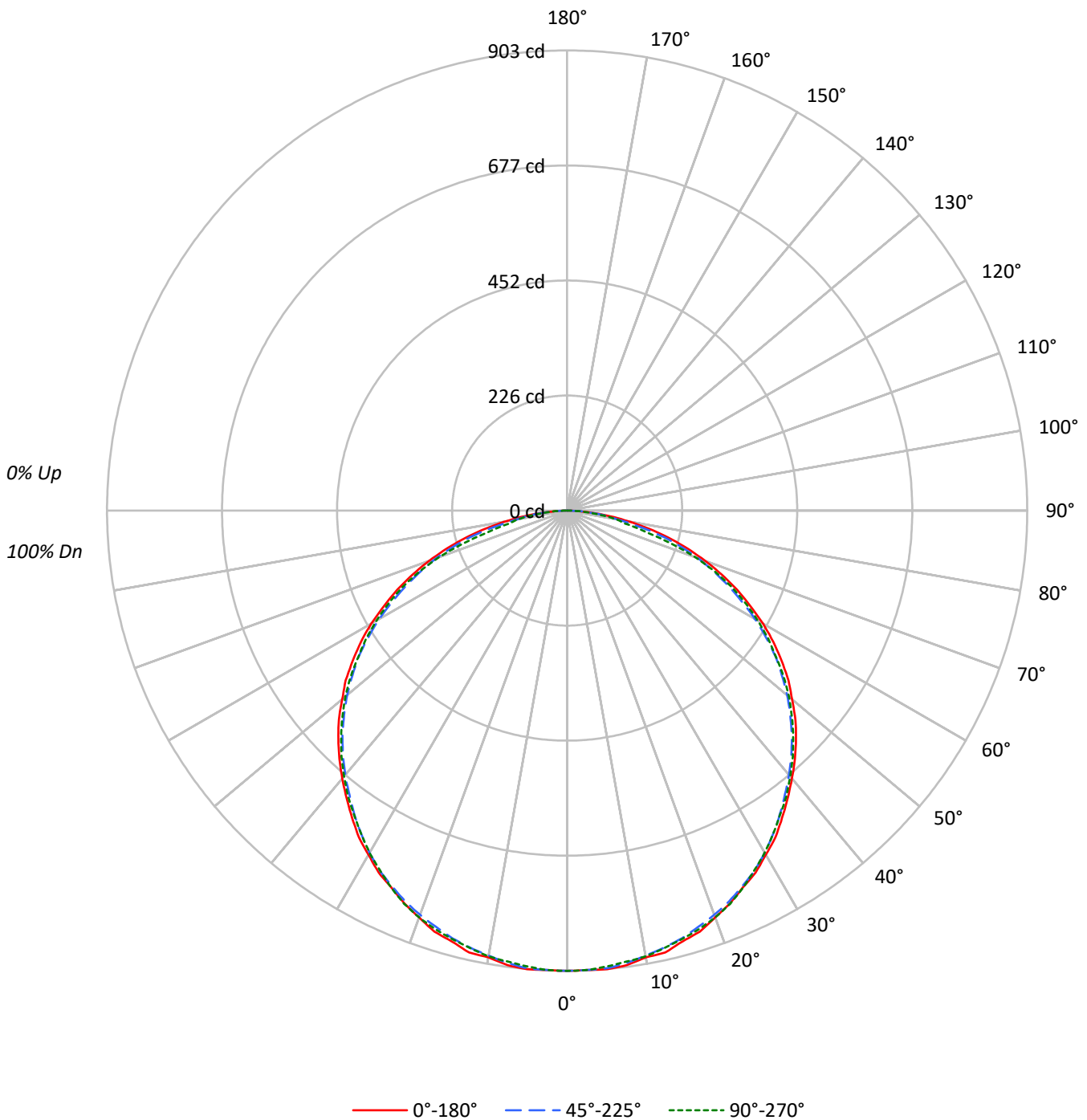
Input Watts (W): 20.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	80	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	42	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	36	29	25	23

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

	0°	45°	90°
0°	1215	1215	1215
5°	1220	1218	1213
10°	1216	1211	1214
15°	1219	1210	1213
20°	1216	1209	1216
25°	1211	1207	1213
30°	1212	1205	1205
35°	1208	1195	1197
40°	1205	1190	1196
45°	1208	1187	1193
50°	1206	1180	1189
55°	1204	1171	1173
60°	1194	1147	1163
65°	1171	1109	1138
70°	1135	1076	1052
75°	1068	990	811
80°	950	773	752
85°	777	695	627



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.6	3.2
10°-20°	245.6	9.1
20°-30°	375.3	13.9
30°-40°	457.5	17.0
40°-50°	482.9	17.9
50°-60°	448.3	16.6
60°-70°	351.1	13.0
70°-80°	196.3	7.3
80°-90°	52.3	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°	706.6	26.2
0°-40°	1164.1	43.2
0°-60°	2095.3	77.7
0°-90°	2695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2695.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	903	902	902	902	898	86
15°	875	870	869	868	871	247
25°	816	815	813	811	817	377
35°	736	733	728	730	729	461
45°	635	628	624	620	627	490
55°	513	506	499	497	500	459
65°	368	360	348	352	357	363
75°	206	199	190	163	156	217
85°	50	45	45	42	41	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	903.3	903.3	903.3	903.3	903.3
2.5°	902.4	904.2	902.4	900.7	902.4
5°	903.3	902.4	901.6	901.6	898.0
7.5°	899.8	898.0	895.4	896.3	892.7
10°	890.1	890.1	886.6	889.2	888.3
12.5°	888.3	879.5	878.6	879.5	879.5
15°	875.1	869.8	868.9	868.0	870.7
17.5°	866.3	857.5	856.6	854.8	861.0
20°	849.5	844.2	844.2	841.6	849.5
22.5°	834.5	829.2	830.1	826.6	835.4
25°	816.0	815.1	813.3	810.7	816.9
27.5°	801.0	797.5	796.6	793.9	795.7
30°	779.8	778.9	775.4	774.5	775.4
32.5°	760.4	757.8	752.5	753.4	752.5
35°	735.7	733.1	727.8	730.4	728.7
37.5°	711.0	708.4	702.2	704.8	706.6
40°	686.3	682.8	677.5	680.1	681.0
42.5°	661.6	655.4	651.0	649.3	655.4
45°	635.1	628.1	623.7	620.2	627.2
47.5°	607.8	599.9	593.7	591.9	598.1
50°	576.0	569.9	563.7	561.0	568.1
52.5°	547.8	538.1	531.1	529.3	535.5
55°	513.4	506.4	499.3	496.7	500.2
57.5°	479.9	472.0	462.2	462.2	467.5
60°	443.7	435.8	426.1	427.0	432.3
62.5°	404.9	399.6	386.4	389.9	395.2
65°	367.9	359.9	348.4	352.0	357.3
67.5°	328.2	321.1	310.5	311.4	314.0
70°	288.5	279.6	273.5	267.3	267.3
72.5°	247.0	239.9	232.9	216.1	212.6
75°	205.5	199.4	190.5	163.2	156.1
77.5°	165.0	160.6	143.8	118.2	115.6
80°	122.6	121.7	99.7	97.0	97.0
82.5°	84.7	81.2	75.9	70.6	67.9
85°	50.3	45.0	45.0	42.3	40.6
87.5°	15.9	18.5	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)