

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: P393424

Luminaire Tested: **24EN-LD2-30-UNV-L83050-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393424  
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-L83050-W2A-1-U (5700K)  
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: 3112.7 lumens  
Efficiency: N/A  
Efficacy: 150.4 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

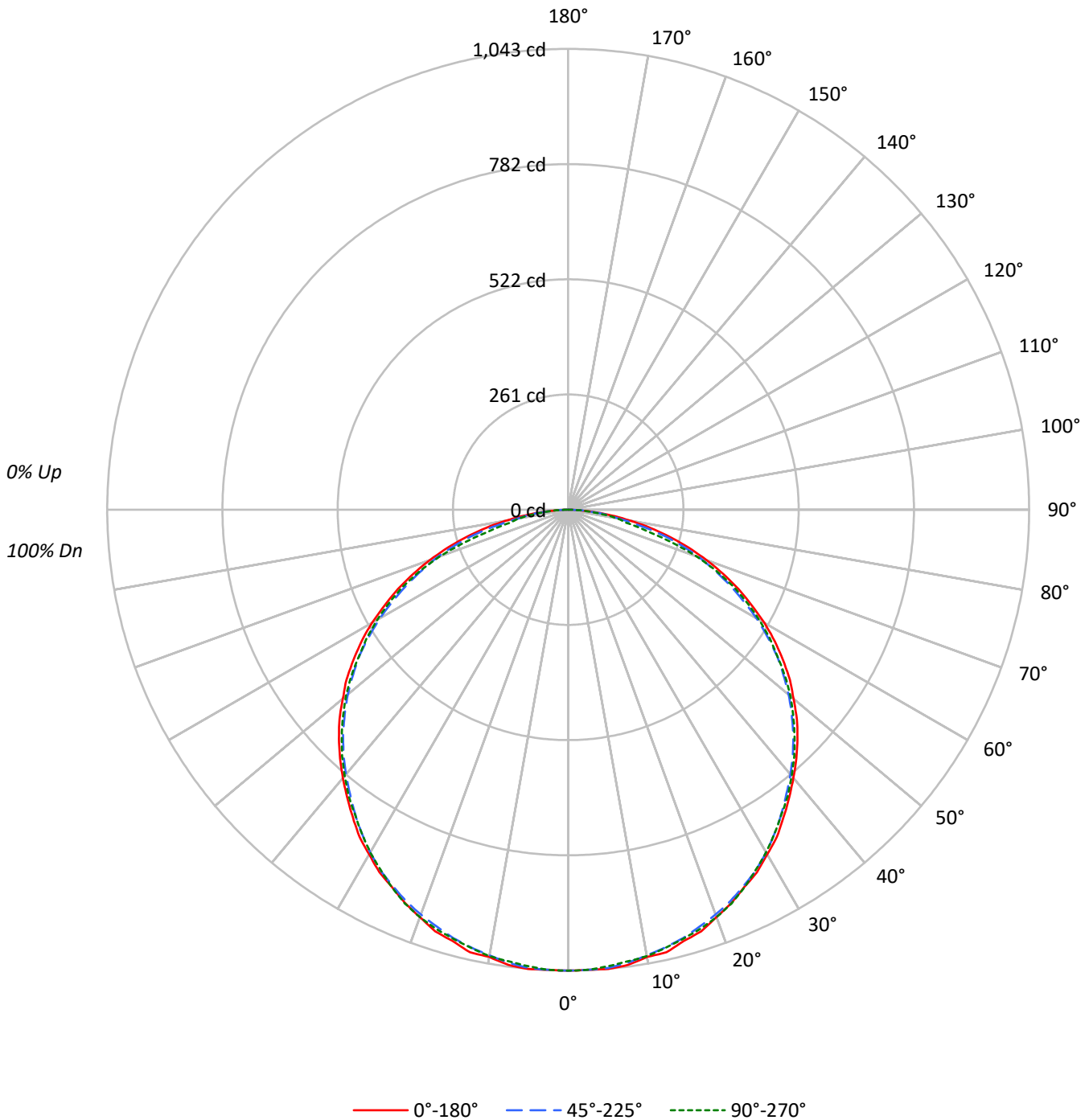
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1404	1404	1404
5°	1409	1406	1401
10°	1405	1399	1402
15°	1408	1398	1401
20°	1405	1396	1405
25°	1399	1395	1401
30°	1399	1391	1391
35°	1396	1381	1382
40°	1392	1374	1382
45°	1396	1371	1378
50°	1393	1363	1373
55°	1391	1353	1355
60°	1379	1324	1343
65°	1353	1281	1314
70°	1311	1242	1214
75°	1234	1144	937
80°	1097	892	869
85°	897	803	724



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.9	3.2
10°-20°	283.7	9.1
20°-30°	433.5	13.9
30°-40°	528.4	17.0
40°-50°	557.7	17.9
50°-60°	517.8	16.6
60°-70°	405.5	13.0
70°-80°	226.7	7.3
80°-90°	60.4	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°	816.1	26.2
0°-40°	1344.5	43.2
0°-60°	2420.1	77.7
0°-90°	3112.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3112.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1043	1042	1041	1041	1037	99
15°	1011	1005	1004	1003	1006	286
25°	942	941	939	936	944	435
35°	850	847	841	844	842	532
45°	734	725	720	716	724	566
55°	593	585	577	574	578	530
65°	425	416	402	406	413	419
75°	237	230	220	188	180	251
85°	58	52	52	49	47	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1043.3	1043.3	1043.3	1043.3	1043.3
2.5°	1042.3	1044.3	1042.3	1040.3	1042.3
5°	1043.3	1042.3	1041.3	1041.3	1037.2
7.5°	1039.2	1037.2	1034.1	1035.2	1031.1
10°	1028.0	1028.0	1024.0	1027.0	1026.0
12.5°	1026.0	1015.8	1014.8	1015.8	1015.8
15°	1010.7	1004.6	1003.6	1002.6	1005.6
17.5°	1000.5	990.3	989.3	987.3	994.4
20°	981.2	975.1	975.1	972.0	981.2
22.5°	963.8	957.7	958.8	954.7	964.9
25°	942.5	941.4	939.4	936.3	943.5
27.5°	925.1	921.1	920.0	917.0	919.0
30°	900.7	899.7	895.6	894.6	895.6
32.5°	878.3	875.2	869.1	870.1	869.1
35°	849.7	846.7	840.6	843.6	841.6
37.5°	821.2	818.1	811.0	814.1	816.1
40°	792.7	788.6	782.5	785.5	786.6
42.5°	764.1	757.0	751.9	749.9	757.0
45°	733.6	725.4	720.3	716.3	724.4
47.5°	702.0	692.8	685.7	683.7	690.8
50°	665.3	658.2	651.1	648.0	656.1
52.5°	632.7	621.5	613.4	611.3	618.5
55°	593.0	584.8	576.7	573.6	577.7
57.5°	554.3	545.1	533.9	533.9	540.0
60°	512.5	503.3	492.1	493.1	499.2
62.5°	467.7	461.5	446.3	450.3	456.5
65°	424.9	415.7	402.5	406.5	412.6
67.5°	379.0	370.9	358.6	359.7	362.7
70°	333.2	323.0	315.8	308.7	308.7
72.5°	285.3	277.1	269.0	249.6	245.5
75°	237.4	230.3	220.1	188.5	180.3
77.5°	190.5	185.4	166.1	136.5	133.5
80°	141.6	140.6	115.1	112.1	112.1
82.5°	97.8	93.7	87.6	81.5	78.5
85°	58.1	52.0	52.0	48.9	46.9
87.5°	18.3	21.4	21.4	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)