

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: P393290

Luminaire Tested: **22EN-LD2-30-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-30-UNV-L83050-W2A-1-U (2700K)
Description: 2X2 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2893.9 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

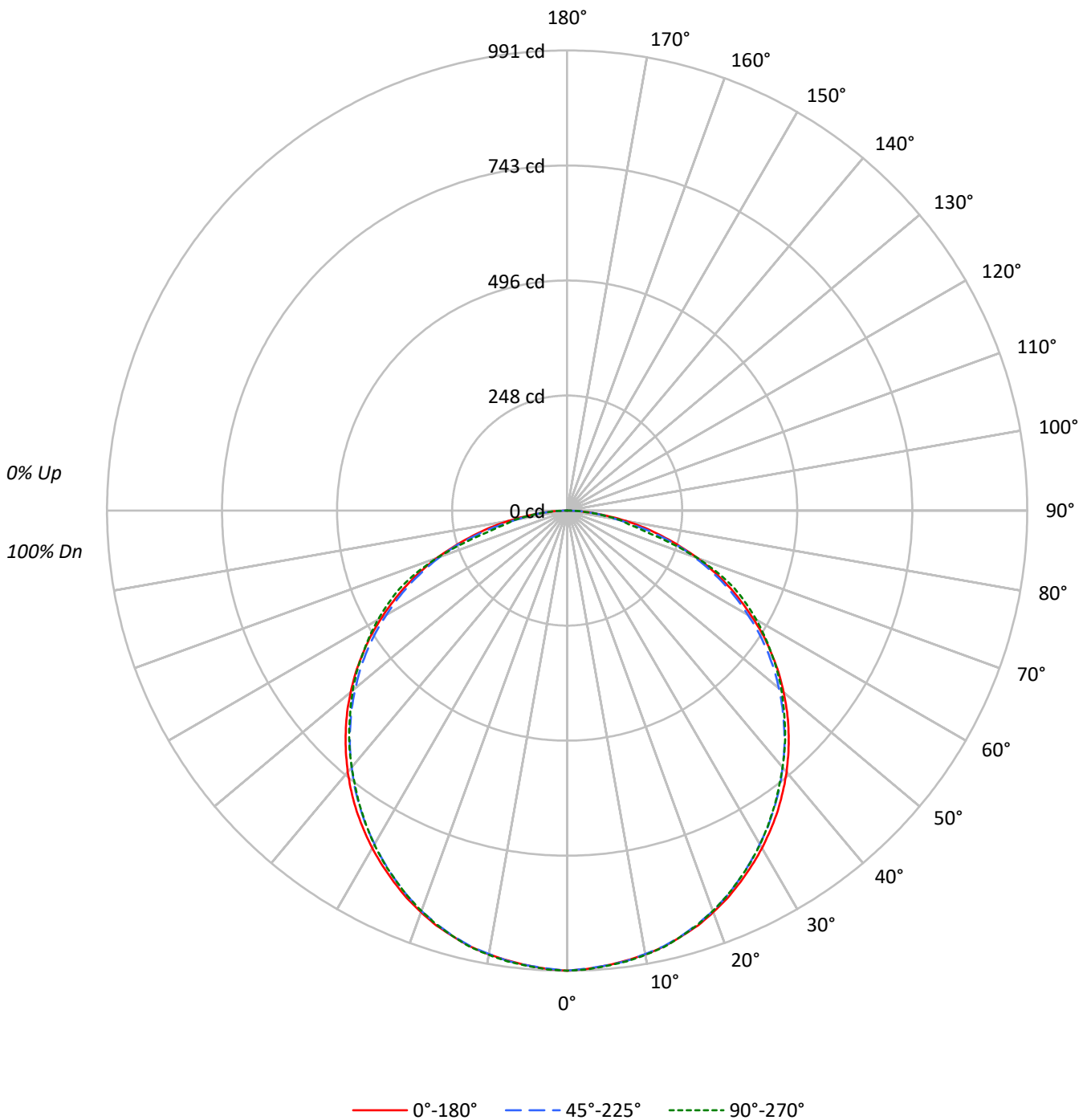
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393290

CATALOG NUMBER: 22EN-LD2-30-UNV-L83050-W2A-1-U (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P393290

CATALOG NUMBER: 22EN-LD2-30-UNV-L83050-W2A-1-U (2700K)

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	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	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	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2666	2666	2666
5°	2656	2656	2658
10°	2652	2649	2655
15°	2645	2642	2645
20°	2636	2627	2627
25°	2621	2604	2604
30°	2608	2578	2581
35°	2596	2558	2554
40°	2583	2535	2535
45°	2567	2515	2526
50°	2549	2492	2524
55°	2521	2467	2521
60°	2482	2420	2534
65°	2433	2371	2537
70°	2345	2293	2345
75°	2187	2087	1806
80°	1988	1689	1779
85°	1460	1488	1430



TEST NUMBER: P393290

CATALOG NUMBER: 22EN-LD2-30-UNV-L83050-W2A-1-U (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.2
10°-20°	268.4	9.3
20°-30°	405.8	14.0
30°-40°	490.2	16.9
40°-50°	514.6	17.8
50°-60°	476.4	16.5
60°-70°	376.8	13.0
70°-80°	211.3	7.3
80°-90°	56.7	2.0
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°	767.9	26.5
0°-40°	1258.1	43.5
0°-60°	2249.1	77.7
0°-90°	2893.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2893.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	983	993	983	984	984	93
15°	949	959	948	948	949	268
25°	883	890	877	874	877	407
35°	790	796	779	775	778	494
45°	674	678	661	658	664	520
55°	537	538	526	531	537	480
65°	382	382	372	385	398	377
75°	210	211	201	181	174	223
85°	47	47	48	47	46	59
90°	0	0	0	0	0	



TEST NUMBER: P393290

CATALOG NUMBER: 22EN-LD2-30-UNV-L83050-W2A-1-U (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990.9	990.9	990.9	990.9	990.9
2.5°	988.0	996.7	987.0	988.0	988.9
5°	983.2	992.8	983.2	984.1	984.1
7.5°	977.4	987.0	978.3	977.4	979.3
10°	970.6	980.3	969.6	970.6	971.6
12.5°	961.9	970.6	961.0	961.0	962.9
15°	949.4	959.0	948.4	947.5	949.4
17.5°	936.8	944.6	933.9	933.0	934.9
20°	920.4	929.1	917.5	915.6	917.5
22.5°	903.1	910.8	898.2	896.3	898.2
25°	882.8	890.5	877.0	874.1	877.0
27.5°	861.6	868.3	853.9	851.0	854.8
30°	839.4	846.1	829.7	826.9	830.7
32.5°	815.3	821.1	805.6	800.8	804.7
35°	790.2	796.0	778.6	774.8	777.6
37.5°	763.2	769.0	751.6	747.7	749.7
40°	735.2	740.0	721.7	717.8	721.7
42.5°	705.3	710.1	692.7	689.8	693.7
45°	674.4	678.3	660.9	658.0	663.8
47.5°	642.6	646.4	629.1	628.1	632.9
50°	608.8	611.7	595.3	596.3	603.0
52.5°	574.1	575.0	561.5	564.4	571.2
55°	537.4	538.4	525.8	530.7	537.4
57.5°	500.7	501.7	489.2	495.0	504.6
60°	461.2	462.1	449.6	460.2	470.8
62.5°	421.6	422.6	412.0	423.6	435.1
65°	382.1	382.1	372.4	385.0	398.5
67.5°	340.6	340.6	331.9	344.4	352.2
70°	298.1	299.1	291.4	294.3	298.1
72.5°	253.7	255.7	248.9	238.3	235.4
75°	210.3	211.3	200.7	181.4	173.7
77.5°	169.8	167.9	152.4	135.1	135.1
80°	128.3	126.4	109.0	111.9	114.8
82.5°	85.9	85.9	80.1	79.1	79.1
85°	47.3	47.3	48.2	47.3	46.3
87.5°	20.3	20.3	21.2	21.2	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)