

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: P393298

Luminaire Tested: **22EN-LD2-30-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393298  
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-L92765-W2A-1-U (2700K)  
Description: 2X2 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2251.1 lumens  
Efficiency: N/A  
Efficacy: 104.2 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

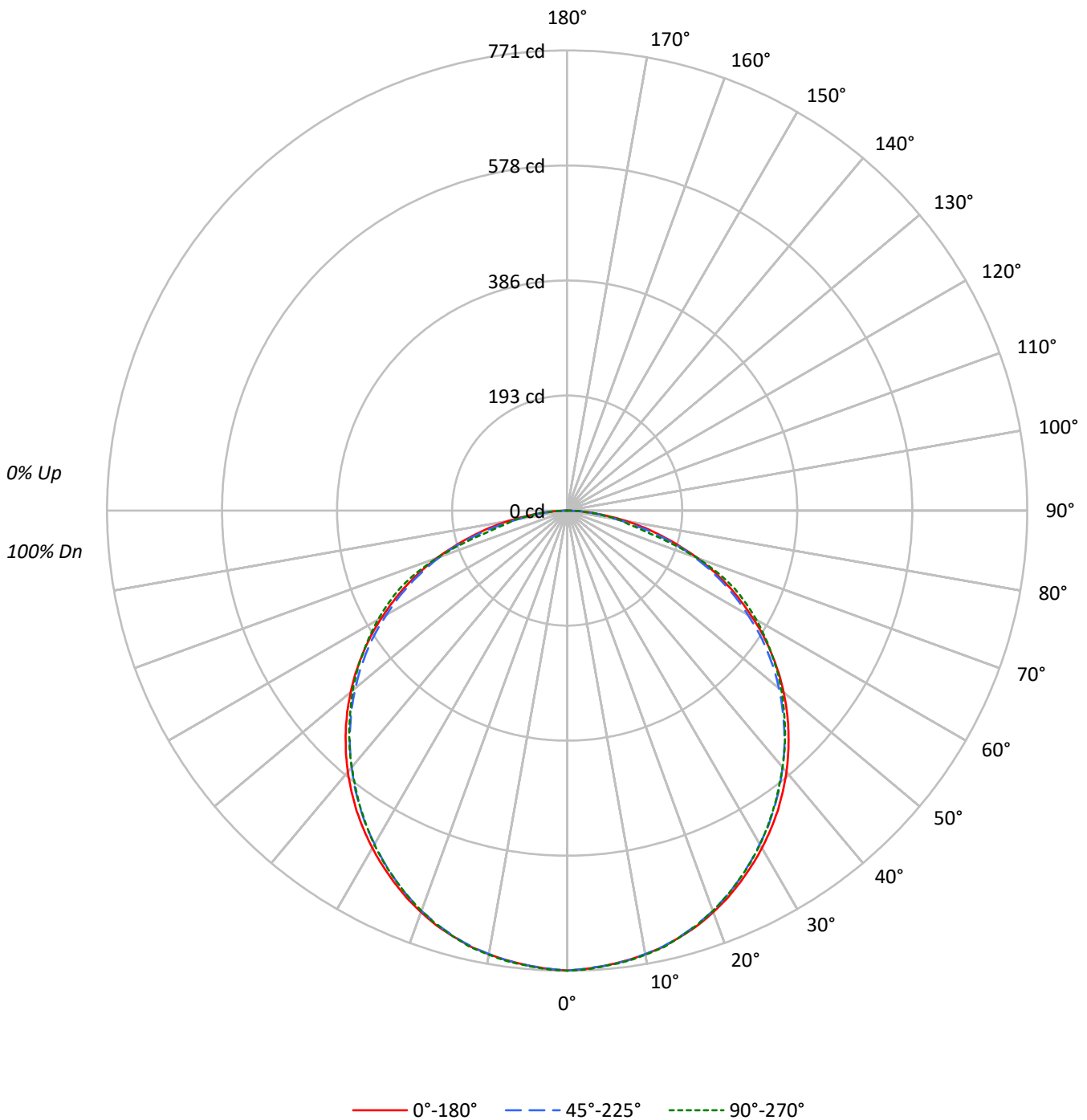
Input Watts (W): 21.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2074	2074	2074
5°	2066	2066	2068
10°	2063	2061	2065
15°	2057	2055	2057
20°	2050	2044	2044
25°	2039	2026	2026
30°	2029	2005	2008
35°	2019	1990	1987
40°	2009	1972	1972
45°	1996	1956	1965
50°	1983	1939	1964
55°	1961	1919	1961
60°	1931	1882	1971
65°	1892	1845	1974
70°	1825	1784	1825
75°	1701	1623	1405
80°	1547	1314	1384
85°	1136	1158	1112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	3.2
10°-20°	208.8	9.3
20°-30°	315.7	14.0
30°-40°	381.3	16.9
40°-50°	400.3	17.8
50°-60°	370.6	16.5
60°-70°	293.1	13.0
70°-80°	164.4	7.3
80°-90°	44.1	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°	597.3	26.5
0°-40°	978.6	43.5
0°-60°	1749.5	77.7
0°-90°	2251.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2251.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	765	772	765	766	766	73
15°	738	746	738	737	738	209
25°	687	693	682	680	682	317
35°	615	619	606	603	605	385
45°	525	528	514	512	516	405
55°	418	419	409	413	418	374
65°	297	297	290	300	310	293
75°	164	164	156	141	135	174
85°	37	37	38	37	36	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	770.8	770.8	770.8	770.8	770.8
2.5°	768.5	775.3	767.8	768.5	769.3
5°	764.8	772.3	764.8	765.5	765.5
7.5°	760.3	767.8	761.0	760.3	761.8
10°	755.0	762.5	754.3	755.0	755.8
12.5°	748.3	755.0	747.5	747.5	749.0
15°	738.5	746.0	737.7	737.0	738.5
17.5°	728.7	734.7	726.5	725.7	727.2
20°	716.0	722.7	713.7	712.2	713.7
22.5°	702.5	708.5	698.7	697.2	698.7
25°	686.7	692.7	682.2	680.0	682.2
27.5°	670.2	675.5	664.2	661.9	664.9
30°	652.9	658.2	645.4	643.2	646.2
32.5°	634.2	638.7	626.7	622.9	625.9
35°	614.7	619.2	605.7	602.7	604.9
37.5°	593.6	598.2	584.6	581.6	583.1
40°	571.9	575.6	561.4	558.4	561.4
42.5°	548.6	552.4	538.9	536.6	539.6
45°	524.6	527.6	514.1	511.8	516.3
47.5°	499.8	502.8	489.3	488.6	492.3
50°	473.6	475.8	463.1	463.8	469.1
52.5°	446.6	447.3	436.8	439.0	444.3
55°	418.0	418.8	409.0	412.8	418.0
57.5°	389.5	390.3	380.5	385.0	392.5
60°	358.7	359.5	349.7	358.0	366.2
62.5°	328.0	328.7	320.5	329.5	338.5
65°	297.2	297.2	289.7	299.5	310.0
67.5°	264.9	264.9	258.2	267.9	273.9
70°	231.9	232.7	226.7	228.9	231.9
72.5°	197.4	198.9	193.6	185.4	183.1
75°	163.6	164.4	156.1	141.1	135.1
77.5°	132.1	130.6	118.6	105.1	105.1
80°	99.8	98.3	84.8	87.1	89.3
82.5°	66.8	66.8	62.3	61.5	61.5
85°	36.8	36.8	37.5	36.8	36.0
87.5°	15.8	15.8	16.5	16.5	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)