

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: P393288

Luminaire Tested: **22EN-LD2-30-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393288
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-L82765-W2A-1-U (5700K)
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: 2890.9 lumens
Efficiency: N/A
Efficacy: 133.8 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

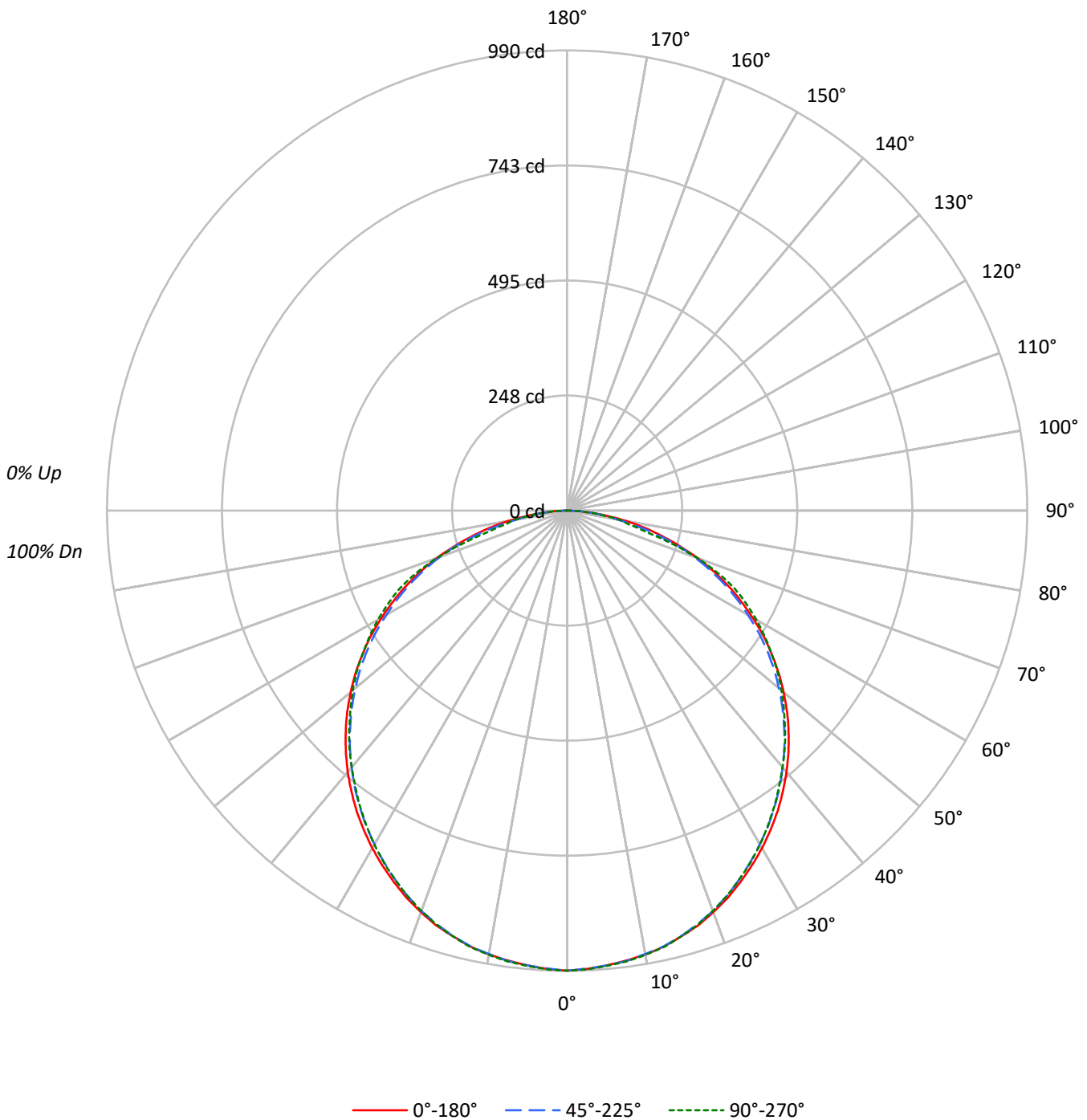
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2664	2664	2664
5°	2653	2653	2656
10°	2649	2647	2652
15°	2642	2639	2642
20°	2633	2625	2625
25°	2619	2601	2601
30°	2605	2576	2578
35°	2593	2555	2552
40°	2580	2532	2532
45°	2564	2512	2524
50°	2546	2490	2522
55°	2518	2464	2518
60°	2479	2417	2531
65°	2430	2369	2535
70°	2343	2290	2343
75°	2184	2085	1804
80°	1987	1688	1777
85°	1457	1488	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	3.2
10°-20°	268.1	9.3
20°-30°	405.4	14.0
30°-40°	489.7	16.9
40°-50°	514.0	17.8
50°-60°	475.9	16.5
60°-70°	376.4	13.0
70°-80°	211.1	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°	767.1	26.5
0°-40°	1256.8	43.5
0°-60°	2246.7	77.7
0°-90°	2890.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	982	992	982	983	983	93
15°	948	958	947	946	948	268
25°	882	890	876	873	876	407
35°	789	795	778	774	777	494
45°	674	678	660	657	663	520
55°	537	538	525	530	537	480
65°	382	382	372	385	398	377
75°	210	211	200	181	174	223
85°	47	47	48	47	46	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	989.8	989.8	989.8	989.8	989.8
2.5°	986.9	995.6	986.0	986.9	987.9
5°	982.1	991.8	982.1	983.1	983.1
7.5°	976.3	986.0	977.3	976.3	978.3
10°	969.6	979.2	968.6	969.6	970.6
12.5°	960.9	969.6	960.0	960.0	961.9
15°	948.4	958.0	947.4	946.5	948.4
17.5°	935.9	943.6	933.0	932.0	933.9
20°	919.5	928.2	916.6	914.7	916.6
22.5°	902.1	909.8	897.3	895.4	897.3
25°	881.9	889.6	876.1	873.2	876.1
27.5°	860.7	867.4	853.0	850.1	853.9
30°	838.5	845.3	828.9	826.0	829.8
32.5°	814.4	820.2	804.8	800.0	803.8
35°	789.4	795.1	777.8	773.9	776.8
37.5°	762.4	768.2	750.8	747.0	748.9
40°	734.4	739.2	720.9	717.1	720.9
42.5°	704.6	709.4	692.0	689.1	693.0
45°	673.7	677.6	660.2	657.3	663.1
47.5°	641.9	645.8	628.4	627.4	632.3
50°	608.2	611.1	594.7	595.6	602.4
52.5°	573.5	574.4	560.9	563.8	570.6
55°	536.8	537.8	525.3	530.1	536.8
57.5°	500.2	501.2	488.7	494.4	504.1
60°	460.7	461.7	449.1	459.7	470.3
62.5°	421.2	422.2	411.6	423.1	434.7
65°	381.7	381.7	372.0	384.6	398.1
67.5°	340.2	340.2	331.6	344.1	351.8
70°	297.8	298.8	291.1	294.0	297.8
72.5°	253.5	255.4	248.7	238.1	235.2
75°	210.1	211.1	200.5	181.2	173.5
77.5°	169.6	167.7	152.3	134.9	134.9
80°	128.2	126.3	108.9	111.8	114.7
82.5°	85.8	85.8	80.0	79.0	79.0
85°	47.2	47.2	48.2	47.2	46.3
87.5°	20.2	20.2	21.2	21.2	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)