

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: P393309

Luminaire Tested: **22EN-LD2-30-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393309
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-L93050-W2A-1-U (4000K)
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: 2620.0 lumens
Efficiency: N/A
Efficacy: 121.3 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

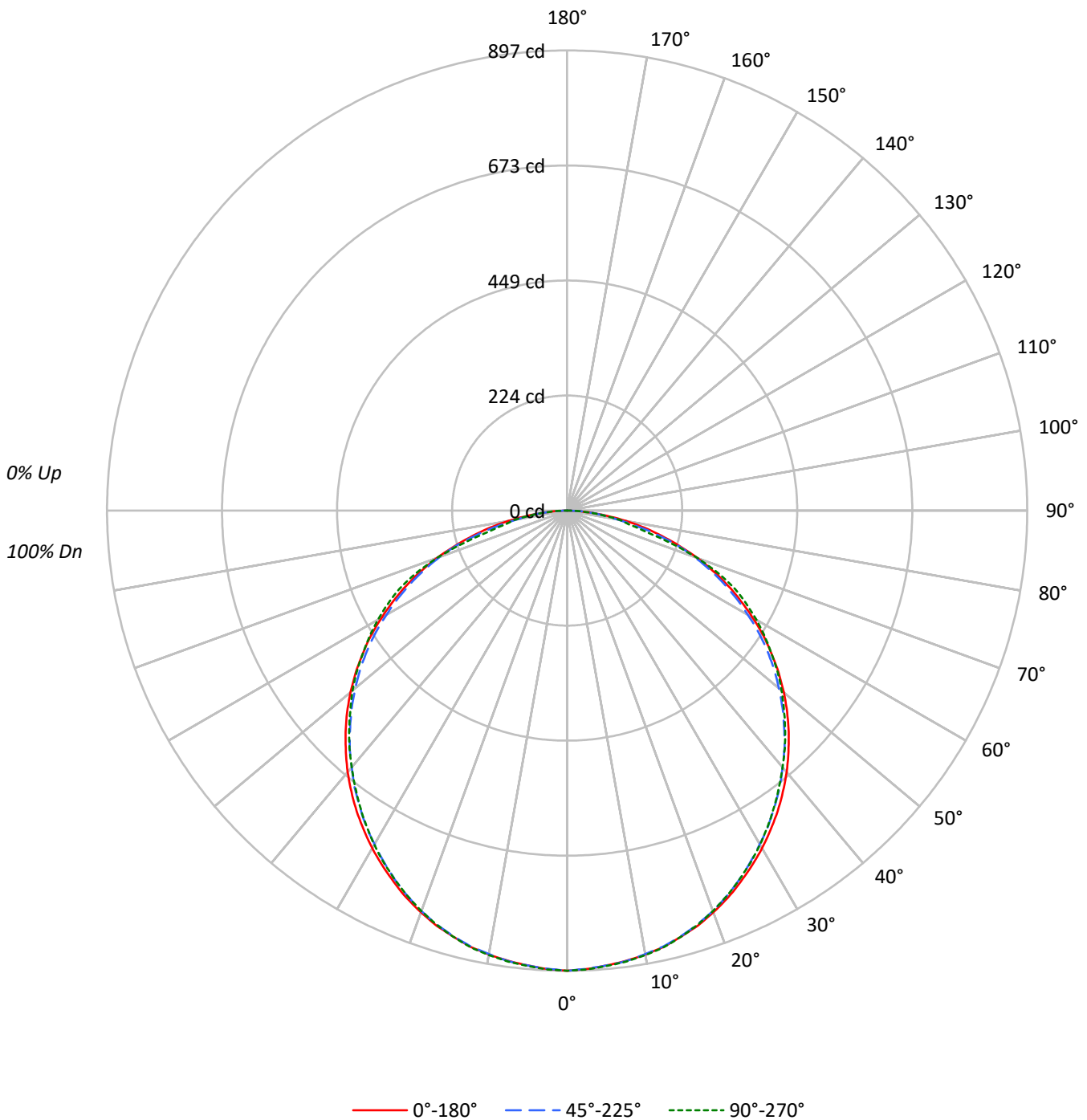
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2414	2414	2414
5°	2404	2404	2407
10°	2401	2399	2403
15°	2394	2392	2394
20°	2386	2379	2379
25°	2373	2358	2358
30°	2362	2334	2337
35°	2350	2316	2313
40°	2338	2295	2295
45°	2324	2277	2287
50°	2308	2256	2285
55°	2282	2234	2282
60°	2247	2191	2294
65°	2202	2147	2297
70°	2124	2076	2124
75°	1980	1889	1634
80°	1801	1530	1610
85°	1321	1349	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.2
10°-20°	243.0	9.3
20°-30°	367.4	14.0
30°-40°	443.8	16.9
40°-50°	465.9	17.8
50°-60°	431.3	16.5
60°-70°	341.1	13.0
70°-80°	191.3	7.3
80°-90°	51.3	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°	695.2	26.5
0°-40°	1139.0	43.5
0°-60°	2036.2	77.7
0°-90°	2620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	890	899	890	891	891	85
15°	860	868	859	858	860	243
25°	799	806	794	791	794	369
35°	715	721	705	701	704	448
45°	611	614	598	596	601	471
55°	486	487	476	480	486	435
65°	346	346	337	348	361	341
75°	190	191	182	164	157	202
85°	43	43	44	43	42	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.1	897.1	897.1	897.1	897.1
2.5°	894.5	902.3	893.6	894.5	895.3
5°	890.1	898.8	890.1	891.0	891.0
7.5°	884.9	893.6	885.7	884.9	886.6
10°	878.7	887.5	877.9	878.7	879.6
12.5°	870.9	878.7	870.0	870.0	871.8
15°	859.5	868.3	858.7	857.8	859.5
17.5°	848.2	855.2	845.6	844.7	846.4
20°	833.3	841.2	830.7	829.0	830.7
22.5°	817.6	824.6	813.2	811.5	813.2
25°	799.3	806.2	794.0	791.4	794.0
27.5°	780.0	786.2	773.1	770.4	773.9
30°	760.0	766.1	751.2	748.6	752.1
32.5°	738.1	743.4	729.4	725.0	728.5
35°	715.4	720.6	704.9	701.4	704.0
37.5°	690.9	696.2	680.5	677.0	678.7
40°	665.6	670.0	653.4	649.9	653.4
42.5°	638.5	642.9	627.2	624.6	628.1
45°	610.6	614.1	598.4	595.7	601.0
47.5°	581.8	585.2	569.5	568.7	573.0
50°	551.2	553.8	539.0	539.8	545.9
52.5°	519.7	520.6	508.4	511.0	517.1
55°	486.5	487.4	476.1	480.4	486.5
57.5°	453.4	454.2	442.9	448.1	456.8
60°	417.5	418.4	407.1	416.7	426.3
62.5°	381.7	382.6	373.0	383.5	394.0
65°	345.9	345.9	337.2	348.5	360.8
67.5°	308.3	308.3	300.5	311.8	318.8
70°	269.9	270.8	263.8	266.4	269.9
72.5°	229.7	231.5	225.4	215.8	213.1
75°	190.4	191.3	181.7	164.2	157.2
77.5°	153.7	152.0	138.0	122.3	122.3
80°	116.2	114.4	98.7	101.3	103.9
82.5°	77.7	77.7	72.5	71.6	71.6
85°	42.8	42.8	43.7	42.8	41.9
87.5°	18.3	18.3	19.2	19.2	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)