

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: P393311

Luminaire Tested: **22EN-LD2-30-UNV-L93050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393311
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 (5000K)
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: 2645.9 lumens
Efficiency: N/A
Efficacy: 123.1 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

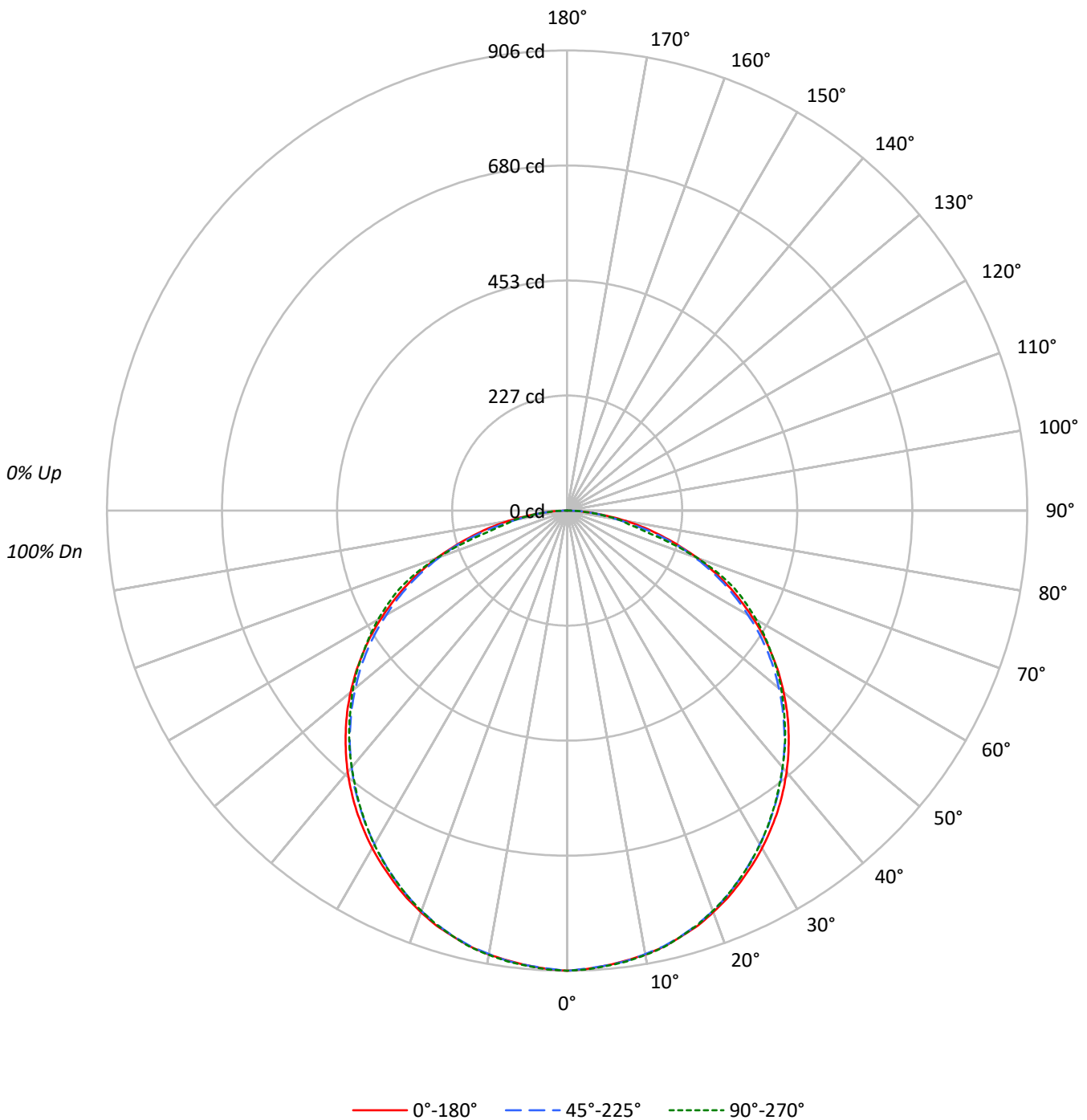
Input Watts (W): 21.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2438	2438	2438
5°	2428	2428	2431
10°	2425	2423	2427
15°	2418	2416	2418
20°	2410	2402	2402
25°	2397	2381	2381
30°	2385	2357	2360
35°	2373	2339	2336
40°	2361	2318	2318
45°	2347	2300	2310
50°	2330	2279	2308
55°	2305	2256	2305
60°	2270	2213	2317
65°	2224	2168	2320
70°	2145	2096	2145
75°	1999	1908	1651
80°	1818	1545	1627
85°	1334	1362	1306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	3.2
10°-20°	245.4	9.3
20°-30°	371.0	14.0
30°-40°	448.2	16.9
40°-50°	470.5	17.8
50°-60°	435.6	16.5
60°-70°	344.5	13.0
70°-80°	193.2	7.3
80°-90°	51.8	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°	702.1	26.5
0°-40°	1150.3	43.5
0°-60°	2056.4	77.7
0°-90°	2645.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	899	908	899	900	900	85
15°	868	877	867	866	868	245
25°	807	814	802	799	802	372
35°	722	728	712	708	711	452
45°	617	620	604	602	607	476
55°	491	492	481	485	491	439
65°	349	349	340	352	364	345
75°	192	193	184	166	159	204
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°	906.0	906.0	906.0	906.0	906.0
2.5°	903.3	911.3	902.4	903.3	904.2
5°	898.9	907.7	898.9	899.8	899.8
7.5°	893.6	902.4	894.5	893.6	895.4
10°	887.4	896.3	886.6	887.4	888.3
12.5°	879.5	887.4	878.6	878.6	880.4
15°	868.0	876.9	867.2	866.3	868.0
17.5°	856.6	863.6	853.9	853.0	854.8
20°	841.6	849.5	838.9	837.2	838.9
22.5°	825.7	832.7	821.3	819.5	821.3
25°	807.2	814.2	801.9	799.2	801.9
27.5°	787.8	793.9	780.7	778.1	781.6
30°	767.5	773.6	758.6	756.0	759.5
32.5°	745.4	750.7	736.6	732.2	735.7
35°	722.5	727.8	711.9	708.4	711.0
37.5°	697.8	703.1	687.2	683.7	685.4
40°	672.2	676.6	659.8	656.3	659.8
42.5°	644.9	649.3	633.4	630.7	634.3
45°	616.6	620.2	604.3	601.6	606.9
47.5°	587.5	591.0	575.2	574.3	578.7
50°	556.6	559.3	544.3	545.2	551.3
52.5°	524.9	525.8	513.4	516.1	522.2
55°	491.4	492.2	480.8	485.2	491.4
57.5°	457.8	458.7	447.3	452.5	461.4
60°	421.7	422.5	411.1	420.8	430.5
62.5°	385.5	386.4	376.7	387.3	397.8
65°	349.3	349.3	340.5	352.0	364.3
67.5°	311.4	311.4	303.5	314.9	322.0
70°	272.6	273.5	266.4	269.1	272.6
72.5°	232.0	233.8	227.6	217.9	215.2
75°	192.3	193.2	183.5	165.8	158.8
77.5°	155.3	153.5	139.4	123.5	123.5
80°	117.3	115.6	99.7	102.3	105.0
82.5°	78.5	78.5	73.2	72.3	72.3
85°	43.2	43.2	44.1	43.2	42.3
87.5°	18.5	18.5	19.4	19.4	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)