

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: P393230

Luminaire Tested: **22EN-LD2-19-UNV-L83050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-19-UNV-L83050-W2A-1-U (4500K)
Description: 2X2 ENCOUNTER, 1900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2254.9 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

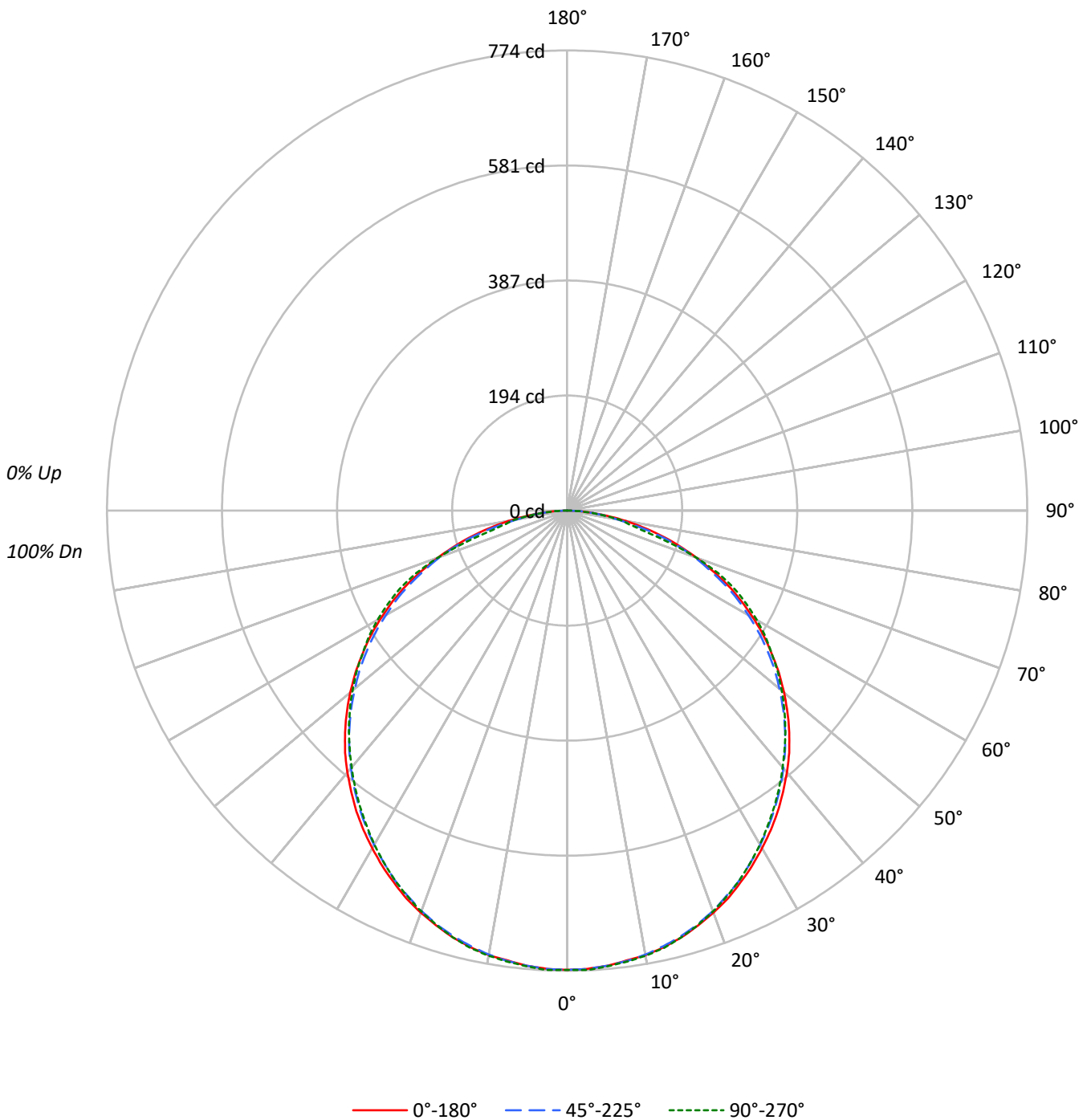
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	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	46	57	50	45	55	49	45	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°	2079	2079	2079
5°	2076	2076	2079
10°	2075	2072	2078
15°	2070	2064	2070
20°	2061	2052	2055
25°	2049	2037	2037
30°	2037	2018	2015
35°	2030	2003	1996
40°	2020	1988	1981
45°	2011	1972	1975
50°	1994	1952	1973
55°	1972	1929	1972
60°	1945	1896	1983
65°	1905	1854	1976
70°	1817	1786	1817
75°	1714	1629	1397
80°	1545	1325	1404
85°	1130	1164	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.2
10°-20°	209.2	9.3
20°-30°	316.3	14.0
30°-40°	382.2	17.0
40°-50°	401.3	17.8
50°-60°	371.5	16.5
60°-70°	293.0	13.0
70°-80°	163.9	7.3
80°-90°	44.3	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°	598.6	26.5
0°-40°	980.8	43.5
0°-60°	1753.7	77.8
0°-90°	2254.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2254.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	768	767	768	768	770	73
15°	743	741	741	741	743	210
25°	690	688	686	684	686	318
35°	618	615	610	606	608	386
45°	528	524	518	515	519	407
55°	420	417	411	413	420	376
65°	299	295	291	301	310	295
75°	165	162	157	142	134	174
85°	37	37	38	38	37	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.5	772.5	772.5	772.5	772.5
2.5°	771.5	770.5	771.5	771.5	773.5
5°	768.5	767.4	768.5	768.5	769.5
7.5°	763.4	763.4	764.4	764.4	765.4
10°	759.3	758.3	758.3	758.3	760.3
12.5°	752.2	750.1	750.1	751.2	753.2
15°	743.0	741.0	741.0	741.0	743.0
17.5°	731.8	730.8	729.8	729.8	730.8
20°	719.6	717.6	716.5	716.5	717.6
22.5°	706.4	703.3	701.3	700.3	702.3
25°	690.1	688.0	686.0	684.0	686.0
27.5°	673.8	670.7	667.7	665.7	667.7
30°	655.5	653.4	649.4	646.3	648.4
32.5°	637.2	635.1	630.0	627.0	628.0
35°	617.8	614.8	609.7	605.6	607.6
37.5°	596.4	594.4	588.3	584.2	586.3
40°	575.1	572.0	565.9	561.8	563.9
42.5°	552.7	548.6	542.5	538.4	541.5
45°	528.3	524.2	518.1	515.0	519.1
47.5°	502.8	498.7	492.6	490.6	495.7
50°	476.3	473.3	466.2	466.2	471.3
52.5°	448.9	444.8	439.7	440.7	446.8
55°	420.4	417.3	411.2	413.2	420.4
57.5°	391.9	387.8	382.7	386.8	395.9
60°	361.3	357.3	352.2	359.3	368.5
62.5°	330.8	326.7	322.7	330.8	340.0
65°	299.2	295.2	291.1	301.3	310.4
67.5°	264.6	260.6	257.5	267.7	274.8
70°	231.0	227.0	227.0	228.0	231.0
72.5°	197.5	195.4	193.4	186.3	182.2
75°	164.9	161.8	156.7	141.5	134.4
77.5°	131.3	128.2	119.1	105.9	106.9
80°	99.7	96.7	85.5	88.6	90.6
82.5°	67.2	66.2	63.1	62.1	62.1
85°	36.6	36.6	37.7	37.7	36.6
87.5°	15.3	15.3	16.3	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)