

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: P393231

Luminaire Tested: **22EN-LD2-19-UNV-L83050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393231
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 (5000K)
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: 2257.2 lumens
Efficiency: N/A
Efficacy: 142.0 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

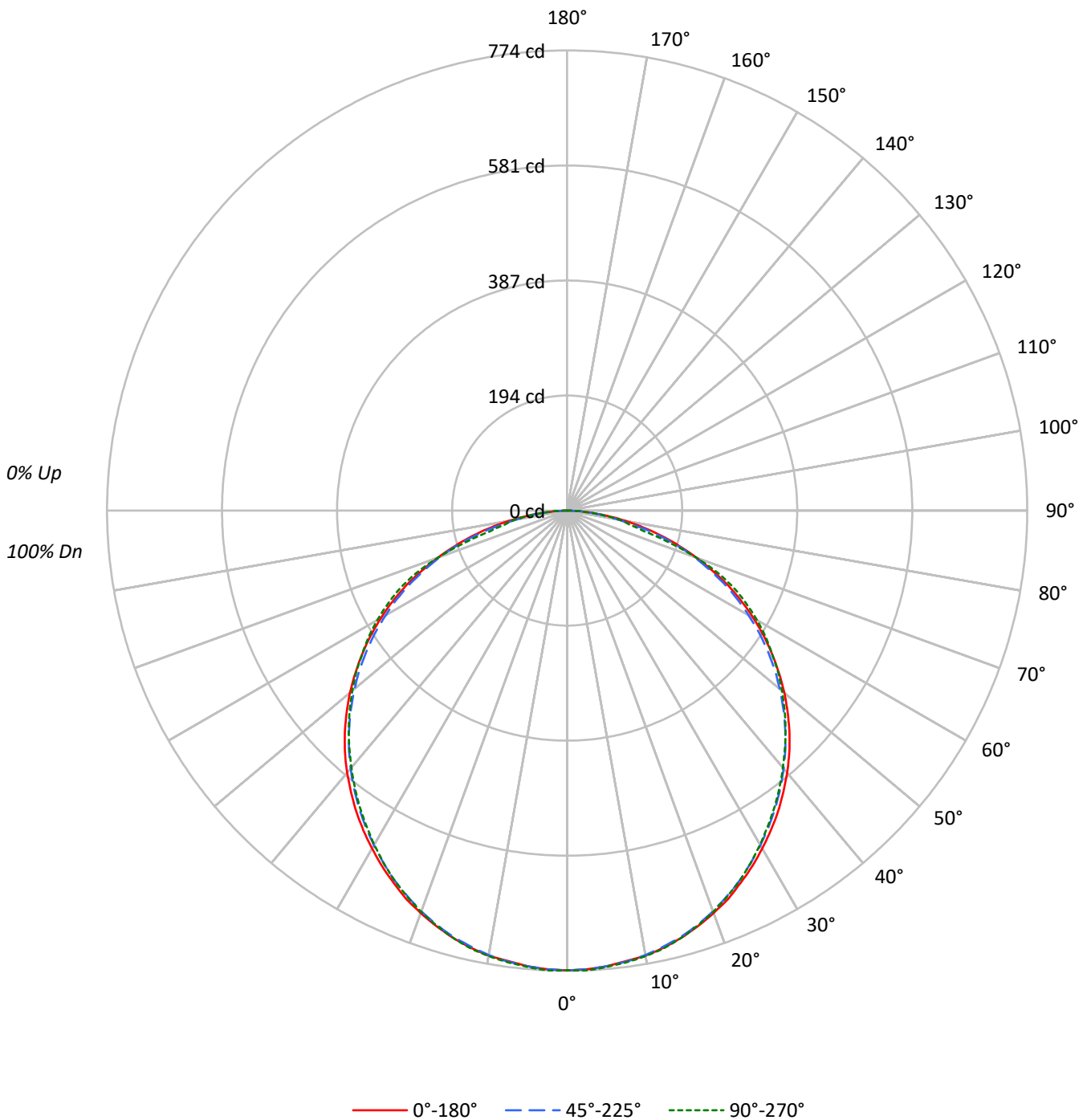
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2081	2081	2081
5°	2078	2078	2081
10°	2077	2074	2080
15°	2072	2066	2072
20°	2063	2054	2057
25°	2051	2039	2039
30°	2039	2020	2017
35°	2031	2005	1998
40°	2022	1990	1983
45°	2012	1974	1977
50°	1996	1953	1975
55°	1974	1931	1974
60°	1947	1897	1985
65°	1907	1855	1979
70°	1820	1788	1820
75°	1717	1631	1398
80°	1547	1327	1406
85°	1133	1164	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.2
10°-20°	209.4	9.3
20°-30°	316.6	14.0
30°-40°	382.6	17.0
40°-50°	401.8	17.8
50°-60°	371.9	16.5
60°-70°	293.3	13.0
70°-80°	164.0	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°	599.2	26.5
0°-40°	981.8	43.5
0°-60°	1755.5	77.8
0°-90°	2257.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	769	768	769	769	770	73
15°	744	742	742	742	744	210
25°	691	689	687	685	687	319
35°	618	615	610	606	608	387
45°	529	525	519	516	520	408
55°	421	418	412	414	421	376
65°	300	296	291	302	311	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°	773.3	773.3	773.3	773.3	773.3
2.5°	772.3	771.3	772.3	772.3	774.3
5°	769.2	768.2	769.2	769.2	770.3
7.5°	764.1	764.1	765.2	765.2	766.2
10°	760.1	759.1	759.1	759.1	761.1
12.5°	752.9	750.9	750.9	751.9	754.0
15°	743.8	741.7	741.7	741.7	743.8
17.5°	732.6	731.5	730.5	730.5	731.5
20°	720.3	718.3	717.3	717.3	718.3
22.5°	707.1	704.0	702.0	701.0	703.0
25°	690.8	688.8	686.7	684.7	686.7
27.5°	674.5	671.4	668.4	666.3	668.4
30°	656.1	654.1	650.0	647.0	649.0
32.5°	637.8	635.8	630.7	627.6	628.6
35°	618.4	615.4	610.3	606.2	608.3
37.5°	597.1	595.0	588.9	584.8	586.9
40°	575.7	572.6	566.5	562.4	564.5
42.5°	553.2	549.2	543.1	539.0	542.0
45°	528.8	524.7	518.6	515.5	519.6
47.5°	503.3	499.2	493.1	491.1	496.2
50°	476.8	473.8	466.6	466.6	471.7
52.5°	449.3	445.2	440.1	441.2	447.3
55°	420.8	417.7	411.6	413.7	420.8
57.5°	392.3	388.2	383.1	387.2	396.3
60°	361.7	357.6	352.5	359.7	368.8
62.5°	331.1	327.1	323.0	331.1	340.3
65°	299.5	295.5	291.4	301.6	310.8
67.5°	264.9	260.8	257.8	268.0	275.1
70°	231.3	227.2	227.2	228.2	231.3
72.5°	197.7	195.6	193.6	186.5	182.4
75°	165.1	162.0	156.9	141.6	134.5
77.5°	131.4	128.4	119.2	106.0	107.0
80°	99.8	96.8	85.6	88.6	90.7
82.5°	67.2	66.2	63.2	62.2	62.2
85°	36.7	36.7	37.7	37.7	36.7
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)