

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: P393245

Luminaire Tested: **22EN-LD2-19-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393245
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-L93050-W2A-1-U (4000K)
Description: 2X2 ENCOUNTER, 1900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1935.1 lumens
Efficiency: N/A
Efficacy: 121.7 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

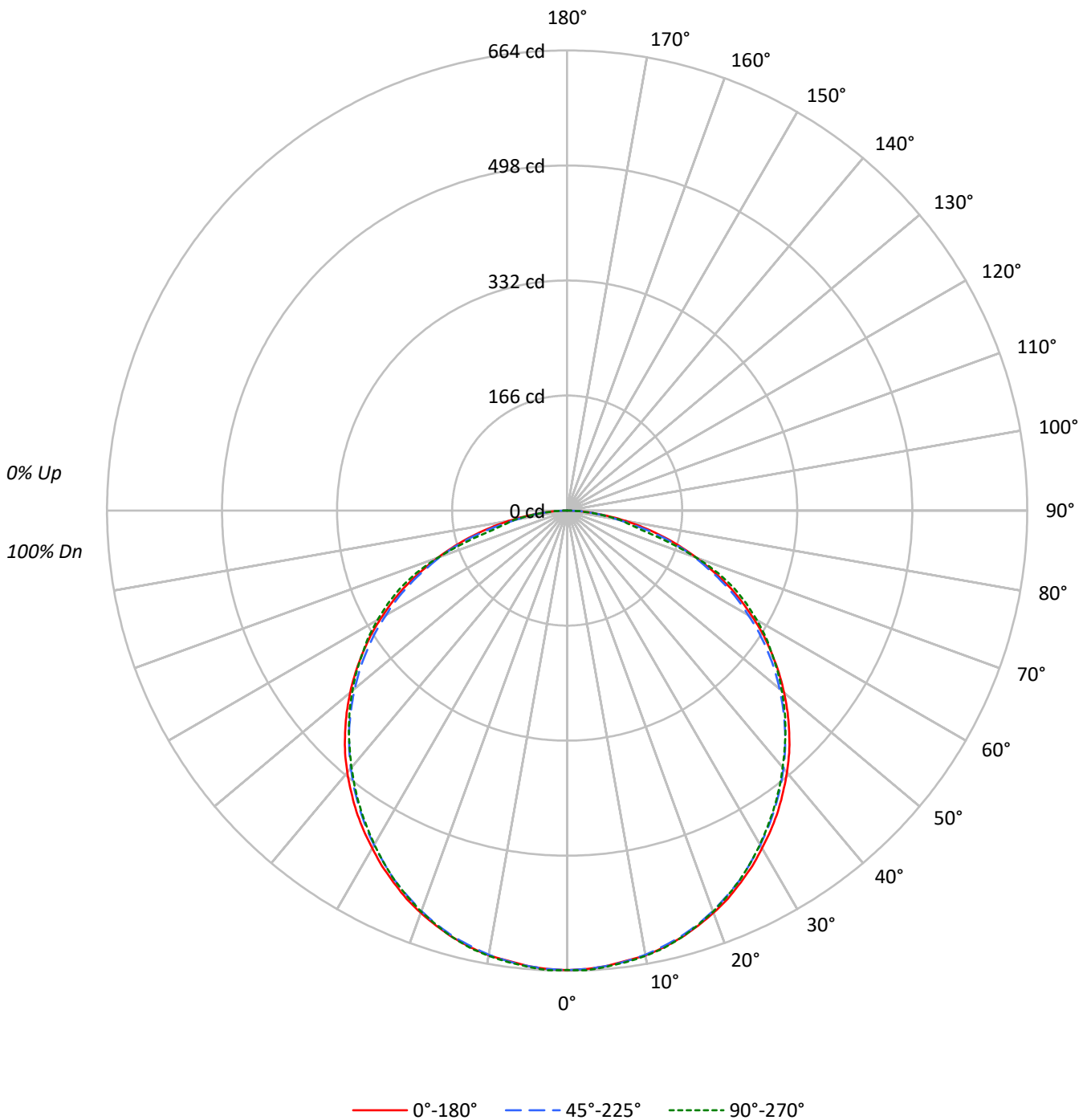
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1784	1784	1784
5°	1781	1781	1784
10°	1780	1778	1783
15°	1777	1772	1777
20°	1769	1761	1763
25°	1758	1748	1748
30°	1748	1732	1729
35°	1742	1719	1713
40°	1734	1706	1700
45°	1725	1692	1695
50°	1711	1675	1693
55°	1693	1656	1693
60°	1669	1626	1702
65°	1635	1591	1696
70°	1560	1533	1560
75°	1471	1398	1199
80°	1327	1137	1204
85°	969	997	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.2
10°-20°	179.6	9.3
20°-30°	271.5	14.0
30°-40°	328.0	17.0
40°-50°	344.4	17.8
50°-60°	318.8	16.5
60°-70°	251.5	13.0
70°-80°	140.6	7.3
80°-90°	38.0	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°	513.7	26.5
0°-40°	841.7	43.5
0°-60°	1505.0	77.8
0°-90°	1935.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1935.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	660	659	660	660	660	63
15°	638	636	636	636	638	180
25°	592	590	589	587	589	273
35°	530	528	523	520	522	332
45°	453	450	445	442	446	350
55°	361	358	353	355	361	323
65°	257	253	250	259	266	253
75°	142	139	134	121	115	149
85°	31	31	32	32	31	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	663.0	663.0	663.0	663.0	663.0
2.5°	662.1	661.2	662.1	662.1	663.9
5°	659.5	658.6	659.5	659.5	660.4
7.5°	655.1	655.1	656.0	656.0	656.9
10°	651.6	650.8	650.8	650.8	652.5
12.5°	645.5	643.8	643.8	644.6	646.4
15°	637.7	635.9	635.9	635.9	637.7
17.5°	628.1	627.2	626.3	626.3	627.2
20°	617.6	615.8	614.9	614.9	615.8
22.5°	606.2	603.6	601.8	601.0	602.7
25°	592.2	590.5	588.7	587.0	588.7
27.5°	578.3	575.6	573.0	571.3	573.0
30°	562.5	560.8	557.3	554.7	556.4
32.5°	546.8	545.1	540.7	538.1	539.0
35°	530.2	527.6	523.2	519.7	521.5
37.5°	511.9	510.1	504.9	501.4	503.1
40°	493.5	490.9	485.7	482.2	483.9
42.5°	474.3	470.8	465.6	462.1	464.7
45°	453.3	449.9	444.6	442.0	445.5
47.5°	431.5	428.0	422.8	421.0	425.4
50°	408.8	406.2	400.1	400.1	404.4
52.5°	385.2	381.7	377.4	378.2	383.5
55°	360.8	358.1	352.9	354.6	360.8
57.5°	336.3	332.8	328.4	331.9	339.8
60°	310.1	306.6	302.2	308.3	316.2
62.5°	283.9	280.4	276.9	283.9	291.8
65°	256.8	253.3	249.8	258.6	266.4
67.5°	227.1	223.6	221.0	229.7	235.8
70°	198.3	194.8	194.8	195.7	198.3
72.5°	169.5	167.7	166.0	159.9	156.4
75°	141.5	138.9	134.5	121.4	115.3
77.5°	112.7	110.1	102.2	90.8	91.7
80°	85.6	83.0	73.4	76.0	77.7
82.5°	57.7	56.8	54.2	53.3	53.3
85°	31.4	31.4	32.3	32.3	31.4
87.5°	13.1	13.1	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)