

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: P393246

Luminaire Tested: **22EN-LD2-19-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393246
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 (4500K)
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: 1945.3 lumens
Efficiency: N/A
Efficacy: 123.1 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

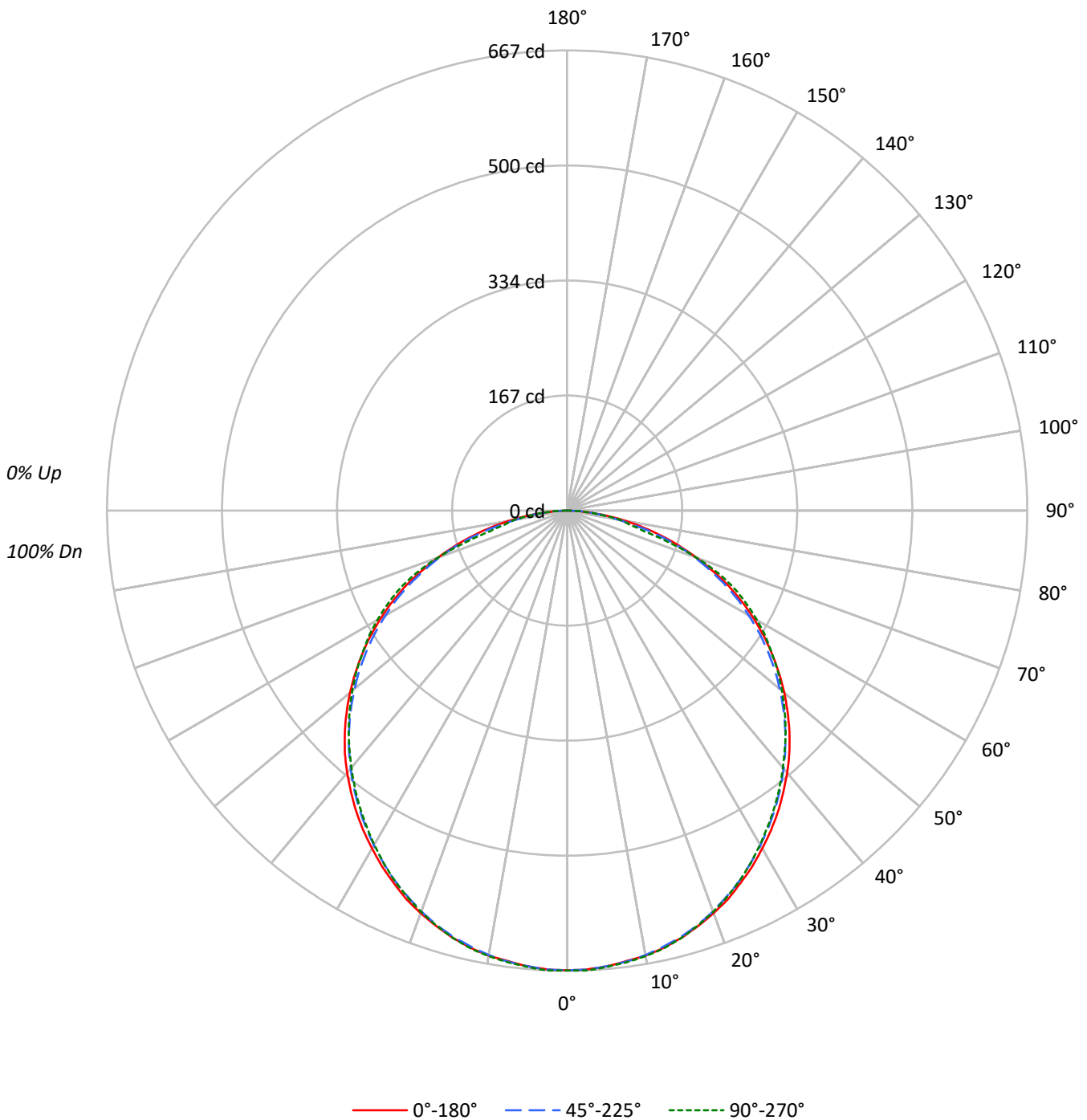
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1794	1794	1794
5°	1791	1791	1793
10°	1790	1788	1792
15°	1786	1781	1786
20°	1778	1770	1773
25°	1768	1757	1757
30°	1757	1741	1738
35°	1751	1728	1722
40°	1743	1715	1709
45°	1734	1701	1704
50°	1720	1684	1702
55°	1701	1664	1701
60°	1678	1635	1711
65°	1644	1599	1705
70°	1568	1541	1568
75°	1478	1406	1205
80°	1334	1144	1210
85°	976	1003	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	3.2
10°-20°	180.5	9.3
20°-30°	272.9	14.0
30°-40°	329.7	17.0
40°-50°	346.2	17.8
50°-60°	320.5	16.5
60°-70°	252.8	13.0
70°-80°	141.3	7.3
80°-90°	38.2	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°	516.4	26.5
0°-40°	846.1	43.5
0°-60°	1512.9	77.8
0°-90°	1945.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1945.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	663	662	663	663	664	63
15°	641	639	639	639	641	181
25°	595	594	592	590	592	275
35°	533	530	526	522	524	333
45°	456	452	447	444	448	351
55°	363	360	355	356	363	324
65°	258	255	251	260	268	254
75°	142	140	135	122	116	150
85°	32	32	32	32	32	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	666.5	666.5	666.5	666.5	666.5
2.5°	665.6	664.7	665.6	665.6	667.3
5°	663.0	662.1	663.0	663.0	663.8
7.5°	658.6	658.6	659.4	659.4	660.3
10°	655.0	654.2	654.2	654.2	655.9
12.5°	648.9	647.1	647.1	648.0	649.8
15°	641.0	639.2	639.2	639.2	641.0
17.5°	631.3	630.5	629.6	629.6	630.5
20°	620.8	619.0	618.2	618.2	619.0
22.5°	609.4	606.8	605.0	604.1	605.9
25°	595.3	593.6	591.8	590.1	591.8
27.5°	581.3	578.7	576.0	574.3	576.0
30°	565.5	563.7	560.2	557.6	559.3
32.5°	549.7	547.9	543.5	540.9	541.8
35°	533.0	530.4	526.0	522.5	524.2
37.5°	514.6	512.8	507.5	504.0	505.8
40°	496.1	493.5	488.2	484.7	486.5
42.5°	476.8	473.3	468.0	464.5	467.1
45°	455.7	452.2	446.9	444.3	447.8
47.5°	433.8	430.3	425.0	423.2	427.6
50°	410.9	408.3	402.2	402.2	406.6
52.5°	387.2	383.7	379.3	380.2	385.5
55°	362.6	360.0	354.7	356.5	362.6
57.5°	338.1	334.5	330.2	333.7	341.6
60°	311.7	308.2	303.8	310.0	317.9
62.5°	285.4	281.9	278.4	285.4	293.3
65°	258.2	254.6	251.1	259.9	267.8
67.5°	228.3	224.8	222.2	230.9	237.1
70°	199.3	195.8	195.8	196.7	199.3
72.5°	170.3	168.6	166.8	160.7	157.2
75°	142.2	139.6	135.2	122.1	115.9
77.5°	113.3	110.6	102.7	91.3	92.2
80°	86.1	83.4	73.8	76.4	78.1
82.5°	58.0	57.1	54.4	53.6	53.6
85°	31.6	31.6	32.5	32.5	31.6
87.5°	13.2	13.2	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)