

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: P393242

Luminaire Tested: **22EN-LD2-19-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393242
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 (2700K)
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: 1912.8 lumens
Efficiency: N/A
Efficacy: 119.5 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

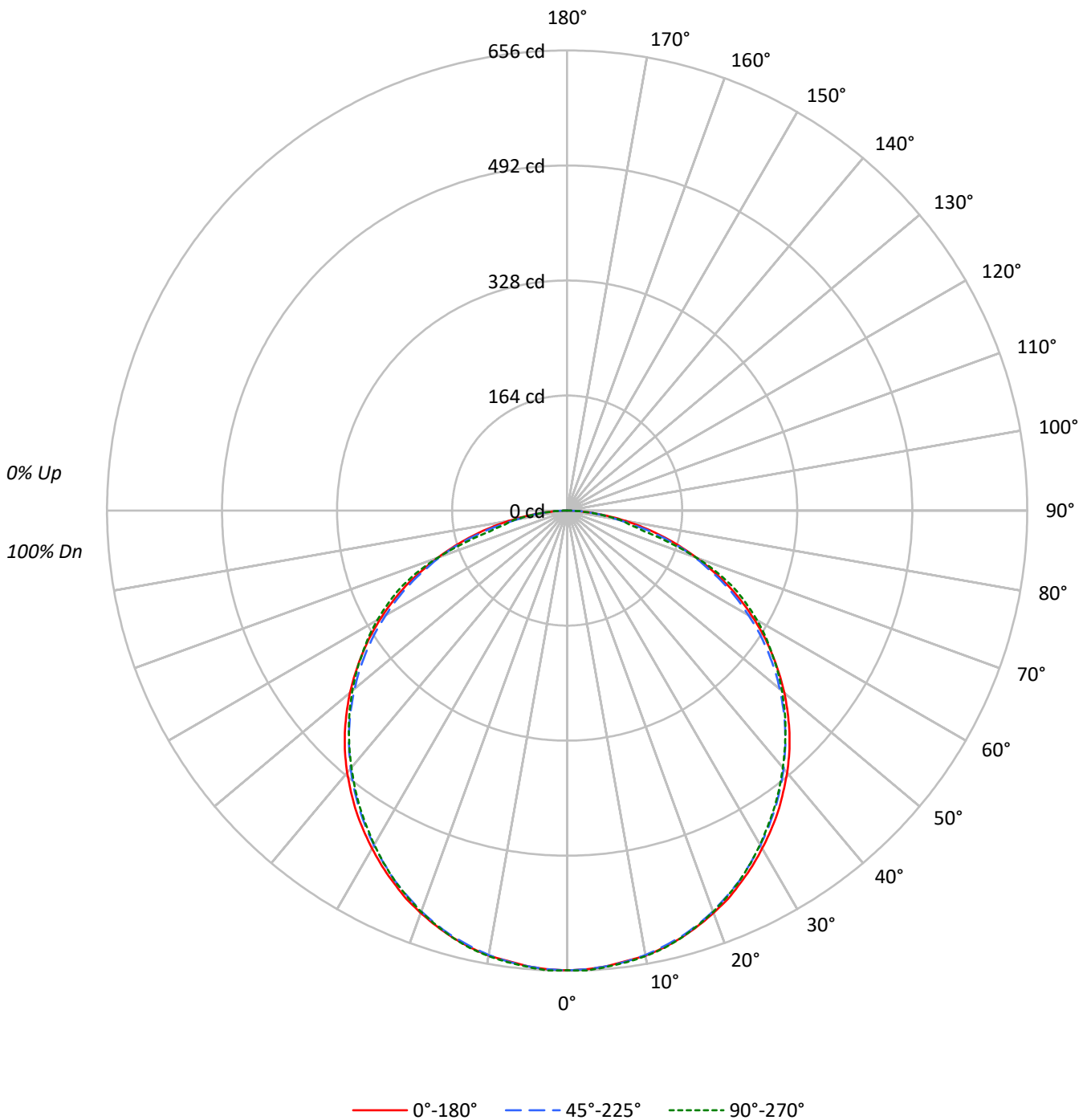
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1763	1763	1763
5°	1761	1761	1763
10°	1760	1758	1762
15°	1756	1751	1756
20°	1748	1741	1743
25°	1738	1728	1728
30°	1728	1712	1709
35°	1722	1699	1693
40°	1714	1687	1680
45°	1705	1673	1676
50°	1692	1656	1674
55°	1673	1636	1673
60°	1650	1608	1682
65°	1616	1572	1677
70°	1542	1515	1542
75°	1455	1383	1185
80°	1311	1124	1190
85°	960	985	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	3.2
10°-20°	177.5	9.3
20°-30°	268.3	14.0
30°-40°	324.2	17.0
40°-50°	340.5	17.8
50°-60°	315.2	16.5
60°-70°	248.6	13.0
70°-80°	139.0	7.3
80°-90°	37.6	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°	507.8	26.5
0°-40°	832.0	43.5
0°-60°	1487.7	77.8
0°-90°	1912.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	652	651	652	652	653	62
15°	630	629	629	629	630	178
25°	585	584	582	580	582	270
35°	524	522	517	514	516	328
45°	448	445	440	437	440	346
55°	357	354	349	351	357	319
65°	254	250	247	256	263	250
75°	140	137	133	120	114	147
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°	655.3	655.3	655.3	655.3	655.3
2.5°	654.5	653.6	654.5	654.5	656.2
5°	651.9	651.0	651.9	651.9	652.8
7.5°	647.6	647.6	648.4	648.4	649.3
10°	644.1	643.3	643.3	643.3	645.0
12.5°	638.1	636.3	636.3	637.2	638.9
15°	630.3	628.6	628.6	628.6	630.3
17.5°	620.8	619.9	619.1	619.1	619.9
20°	610.4	608.7	607.9	607.9	608.7
22.5°	599.2	596.6	594.9	594.0	595.8
25°	585.4	583.7	582.0	580.2	582.0
27.5°	571.6	569.0	566.4	564.7	566.4
30°	556.0	554.3	550.9	548.3	550.0
32.5°	540.5	538.8	534.5	531.9	532.7
35°	524.1	521.5	517.2	513.7	515.5
37.5°	506.0	504.2	499.1	495.6	497.3
40°	487.8	485.2	480.1	476.6	478.3
42.5°	468.8	465.4	460.2	456.8	459.3
45°	448.1	444.7	439.5	436.9	440.3
47.5°	426.5	423.1	417.9	416.2	420.5
50°	404.1	401.5	395.5	395.5	399.8
52.5°	380.8	377.3	373.0	373.9	379.0
55°	356.6	354.0	348.8	350.6	356.6
57.5°	332.4	329.0	324.6	328.1	335.9
60°	306.5	303.1	298.7	304.8	312.6
62.5°	280.6	277.2	273.7	280.6	288.4
65°	253.8	250.4	246.9	255.6	263.3
67.5°	224.5	221.0	218.4	227.1	233.1
70°	196.0	192.5	192.5	193.4	196.0
72.5°	167.5	165.8	164.1	158.0	154.6
75°	139.9	137.3	133.0	120.0	114.0
77.5°	111.4	108.8	101.0	89.8	90.7
80°	84.6	82.0	72.5	75.1	76.8
82.5°	57.0	56.1	53.5	52.7	52.7
85°	31.1	31.1	31.9	31.9	31.1
87.5°	13.0	13.0	13.8	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)