

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: P393239

Luminaire Tested: **22EN-LD2-19-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393239
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-L92765-W2A-1-U (5000K)
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: 1867.3 lumens
Efficiency: N/A
Efficacy: 116.7 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

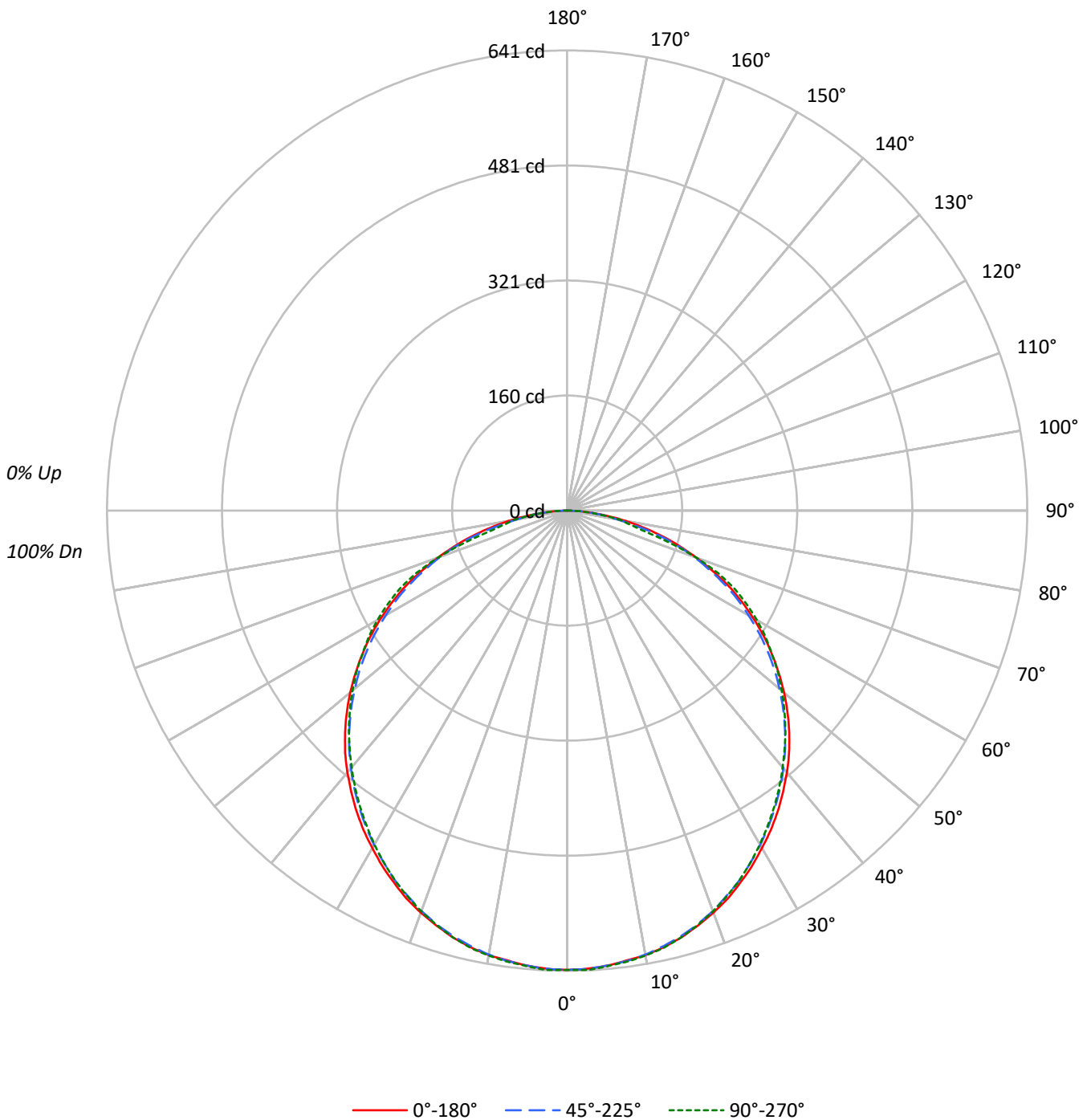
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1722	1722	1722
5°	1719	1719	1721
10°	1718	1716	1720
15°	1714	1709	1714
20°	1706	1699	1702
25°	1697	1687	1687
30°	1687	1671	1668
35°	1681	1659	1653
40°	1673	1646	1640
45°	1665	1633	1636
50°	1652	1616	1634
55°	1633	1597	1633
60°	1610	1569	1642
65°	1578	1535	1637
70°	1505	1479	1505
75°	1419	1350	1157
80°	1280	1097	1162
85°	936	963	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	3.2
10°-20°	173.3	9.3
20°-30°	261.9	14.0
30°-40°	316.5	17.0
40°-50°	332.4	17.8
50°-60°	307.7	16.5
60°-70°	242.7	13.0
70°-80°	135.7	7.3
80°-90°	36.7	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°	495.7	26.5
0°-40°	812.2	43.5
0°-60°	1452.3	77.8
0°-90°	1867.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	636	636	636	636	637	60
15°	615	614	614	614	615	174
25°	572	570	568	566	568	264
35°	512	509	505	502	503	320
45°	438	434	429	426	430	337
55°	348	346	340	342	348	311
65°	248	244	241	250	257	244
75°	136	134	130	117	111	144
85°	30	30	31	31	30	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	639.8	639.8	639.8	639.8	639.8
2.5°	638.9	638.1	638.9	638.9	640.6
5°	636.4	635.5	636.4	636.4	637.2
7.5°	632.2	632.2	633.0	633.0	633.9
10°	628.8	628.0	628.0	628.0	629.6
12.5°	622.9	621.2	621.2	622.1	623.7
15°	615.3	613.6	613.6	613.6	615.3
17.5°	606.0	605.2	604.4	604.4	605.2
20°	595.9	594.2	593.4	593.4	594.2
22.5°	585.0	582.4	580.8	579.9	581.6
25°	571.5	569.8	568.1	566.4	568.1
27.5°	558.0	555.5	552.9	551.3	552.9
30°	542.8	541.1	537.8	535.2	536.9
32.5°	527.7	526.0	521.8	519.2	520.1
35°	511.6	509.1	504.9	501.5	503.2
37.5°	493.9	492.3	487.2	483.8	485.5
40°	476.2	473.7	468.7	465.3	467.0
42.5°	457.7	454.3	449.3	445.9	448.4
45°	437.5	434.1	429.0	426.5	429.9
47.5°	416.4	413.0	408.0	406.3	410.5
50°	394.5	391.9	386.0	386.0	390.3
52.5°	371.7	368.3	364.1	365.0	370.0
55°	348.1	345.6	340.5	342.2	348.1
57.5°	324.5	321.1	316.9	320.3	327.9
60°	299.2	295.9	291.6	297.5	305.1
62.5°	273.9	270.6	267.2	273.9	281.5
65°	247.8	244.4	241.1	249.5	257.1
67.5°	219.2	215.8	213.3	221.7	227.6
70°	191.3	188.0	188.0	188.8	191.3
72.5°	163.5	161.8	160.2	154.3	150.9
75°	136.5	134.0	129.8	117.2	111.3
77.5°	108.7	106.2	98.6	87.7	88.5
80°	82.6	80.1	70.8	73.3	75.0
82.5°	55.6	54.8	52.3	51.4	51.4
85°	30.3	30.3	31.2	31.2	30.3
87.5°	12.6	12.6	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)