

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: P393240

Luminaire Tested: **22EN-LD2-19-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393240
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 (5700K)
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: 1896.0 lumens
Efficiency: N/A
Efficacy: 118.5 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

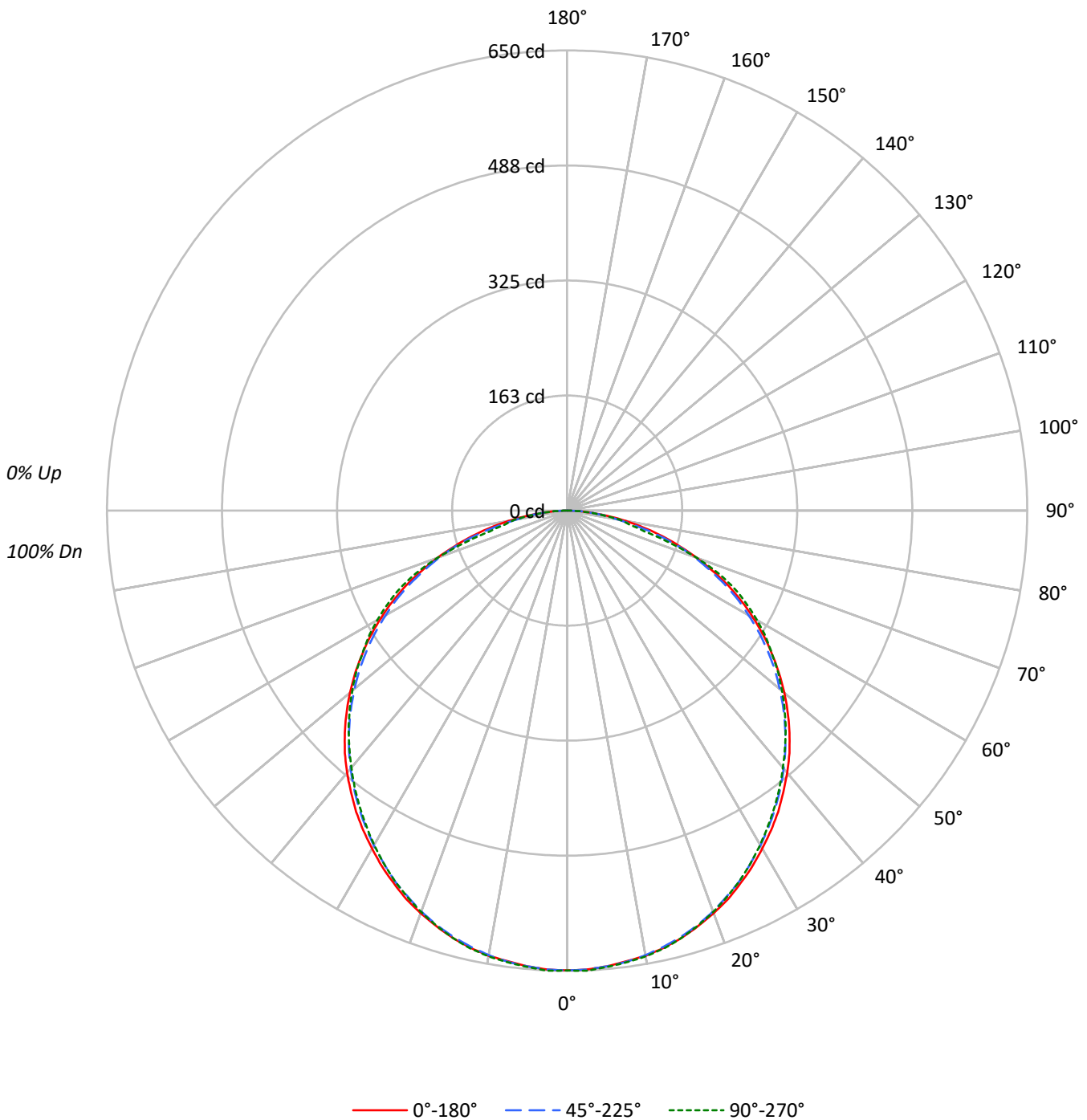
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1748	1748	1748
5°	1746	1746	1748
10°	1745	1742	1747
15°	1741	1736	1741
20°	1733	1725	1728
25°	1723	1713	1713
30°	1713	1697	1694
35°	1707	1684	1679
40°	1699	1672	1666
45°	1690	1658	1661
50°	1677	1641	1659
55°	1658	1622	1658
60°	1635	1594	1667
65°	1602	1559	1662
70°	1529	1502	1529
75°	1442	1370	1175
80°	1300	1114	1181
85°	951	979	951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.2
10°-20°	175.9	9.3
20°-30°	266.0	14.0
30°-40°	321.4	17.0
40°-50°	337.5	17.8
50°-60°	312.4	16.5
60°-70°	246.4	13.0
70°-80°	137.8	7.3
80°-90°	37.2	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°	503.3	26.5
0°-40°	824.7	43.5
0°-60°	1474.6	77.8
0°-90°	1896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	646	645	646	646	647	61
15°	625	623	623	623	625	176
25°	580	579	577	575	577	268
35°	520	517	513	509	511	325
45°	444	441	436	433	436	343
55°	354	351	346	348	354	316
65°	252	248	245	253	261	248
75°	139	136	132	119	113	146
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°	649.6	649.6	649.6	649.6	649.6
2.5°	648.7	647.9	648.7	648.7	650.5
5°	646.2	645.3	646.2	646.2	647.0
7.5°	641.9	641.9	642.8	642.8	643.6
10°	638.5	637.6	637.6	637.6	639.3
12.5°	632.5	630.8	630.8	631.6	633.3
15°	624.8	623.1	623.1	623.1	624.8
17.5°	615.4	614.5	613.7	613.7	614.5
20°	605.1	603.4	602.5	602.5	603.4
22.5°	594.0	591.4	589.7	588.8	590.5
25°	580.3	578.6	576.9	575.1	576.9
27.5°	566.6	564.0	561.4	559.7	561.4
30°	551.2	549.5	546.0	543.5	545.2
32.5°	535.8	534.1	529.8	527.2	528.1
35°	519.5	516.9	512.7	509.2	511.0
37.5°	501.5	499.8	494.7	491.3	493.0
40°	483.6	481.0	475.9	472.4	474.2
42.5°	464.7	461.3	456.2	452.8	455.3
45°	444.2	440.8	435.6	433.1	436.5
47.5°	422.8	419.4	414.2	412.5	416.8
50°	400.5	398.0	392.0	392.0	396.3
52.5°	377.4	374.0	369.7	370.6	375.7
55°	353.5	350.9	345.8	347.5	353.5
57.5°	329.5	326.1	321.8	325.2	332.9
60°	303.8	300.4	296.1	302.1	309.8
62.5°	278.2	274.7	271.3	278.2	285.9
65°	251.6	248.2	244.8	253.3	261.0
67.5°	222.5	219.1	216.5	225.1	231.1
70°	194.3	190.9	190.9	191.7	194.3
72.5°	166.0	164.3	162.6	156.6	153.2
75°	138.7	136.1	131.8	119.0	113.0
77.5°	110.4	107.8	100.1	89.0	89.9
80°	83.9	81.3	71.9	74.5	76.2
82.5°	56.5	55.6	53.1	52.2	52.2
85°	30.8	30.8	31.7	31.7	30.8
87.5°	12.8	12.8	13.7	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)