

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: P393234

Luminaire Tested: **22EN-LD2-19-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393234  
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 (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: 1662.6 lumens  
Efficiency: N/A  
Efficacy: 104.6 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

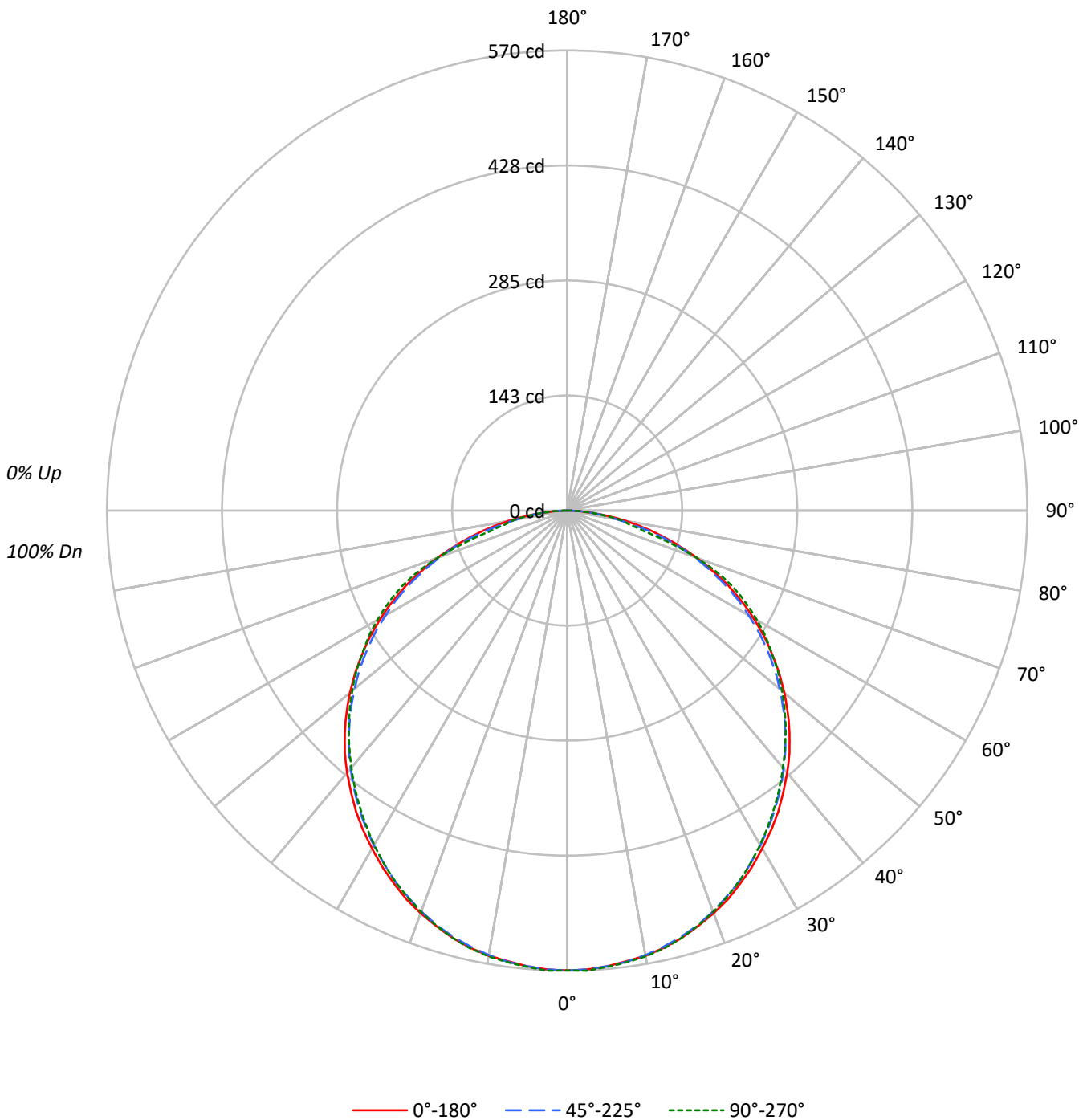
Input Watts (W): 15.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1533	1533	1533
5°	1531	1531	1533
10°	1530	1528	1532
15°	1526	1522	1526
20°	1519	1513	1515
25°	1511	1502	1502
30°	1502	1488	1486
35°	1497	1477	1472
40°	1489	1466	1461
45°	1482	1454	1457
50°	1470	1439	1455
55°	1454	1422	1454
60°	1434	1398	1462
65°	1405	1366	1457
70°	1341	1317	1341
75°	1264	1202	1030
80°	1139	976	1035
85°	834	858	834



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.9	3.2
10°-20°	154.3	9.3
20°-30°	233.2	14.0
30°-40°	281.8	17.0
40°-50°	295.9	17.8
50°-60°	273.9	16.5
60°-70°	216.1	13.0
70°-80°	120.8	7.3
80°-90°	32.7	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°	441.4	26.5
0°-40°	723.2	43.5
0°-60°	1293.1	77.8
0°-90°	1662.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1662.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	567	566	567	567	567	54
15°	548	546	546	546	548	155
25°	509	507	506	504	506	235
35°	456	453	450	446	448	285
45°	390	386	382	380	383	300
55°	310	308	303	305	310	277
65°	221	218	215	222	229	217
75°	122	119	116	104	99	128
85°	27	27	28	28	27	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	569.6	569.6	569.6	569.6	569.6
2.5°	568.9	568.1	568.9	568.9	570.4
5°	566.6	565.9	566.6	566.6	567.4
7.5°	562.9	562.9	563.6	563.6	564.4
10°	559.9	559.1	559.1	559.1	560.6
12.5°	554.6	553.1	553.1	553.9	555.4
15°	547.9	546.4	546.4	546.4	547.9
17.5°	539.6	538.9	538.1	538.1	538.9
20°	530.6	529.1	528.4	528.4	529.1
22.5°	520.8	518.6	517.1	516.3	517.8
25°	508.8	507.3	505.8	504.3	505.8
27.5°	496.8	494.6	492.3	490.8	492.3
30°	483.3	481.8	478.8	476.6	478.1
32.5°	469.8	468.3	464.6	462.3	463.1
35°	455.6	453.3	449.6	446.5	448.1
37.5°	439.8	438.3	433.8	430.8	432.3
40°	424.0	421.8	417.3	414.3	415.8
42.5°	407.5	404.5	400.0	397.0	399.3
45°	389.5	386.5	382.0	379.8	382.8
47.5°	370.7	367.7	363.2	361.7	365.5
50°	351.2	349.0	343.7	343.7	347.5
52.5°	331.0	328.0	324.2	325.0	329.5
55°	310.0	307.7	303.2	304.7	310.0
57.5°	288.9	285.9	282.2	285.2	291.9
60°	266.4	263.4	259.7	264.9	271.7
62.5°	243.9	240.9	237.9	243.9	250.7
65°	220.6	217.6	214.6	222.1	228.9
67.5°	195.1	192.1	189.9	197.4	202.6
70°	170.4	167.4	167.4	168.1	170.4
72.5°	145.6	144.1	142.6	137.3	134.3
75°	121.6	119.3	115.6	104.3	99.1
77.5°	96.8	94.6	87.8	78.1	78.8
80°	73.5	71.3	63.0	65.3	66.8
82.5°	49.5	48.8	46.5	45.8	45.8
85°	27.0	27.0	27.8	27.8	27.0
87.5°	11.3	11.3	12.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)