

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: P393235

Luminaire Tested: **22EN-LD2-19-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393235  
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 (3000K)  
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: 1715.0 lumens  
Efficiency: N/A  
Efficacy: 107.9 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

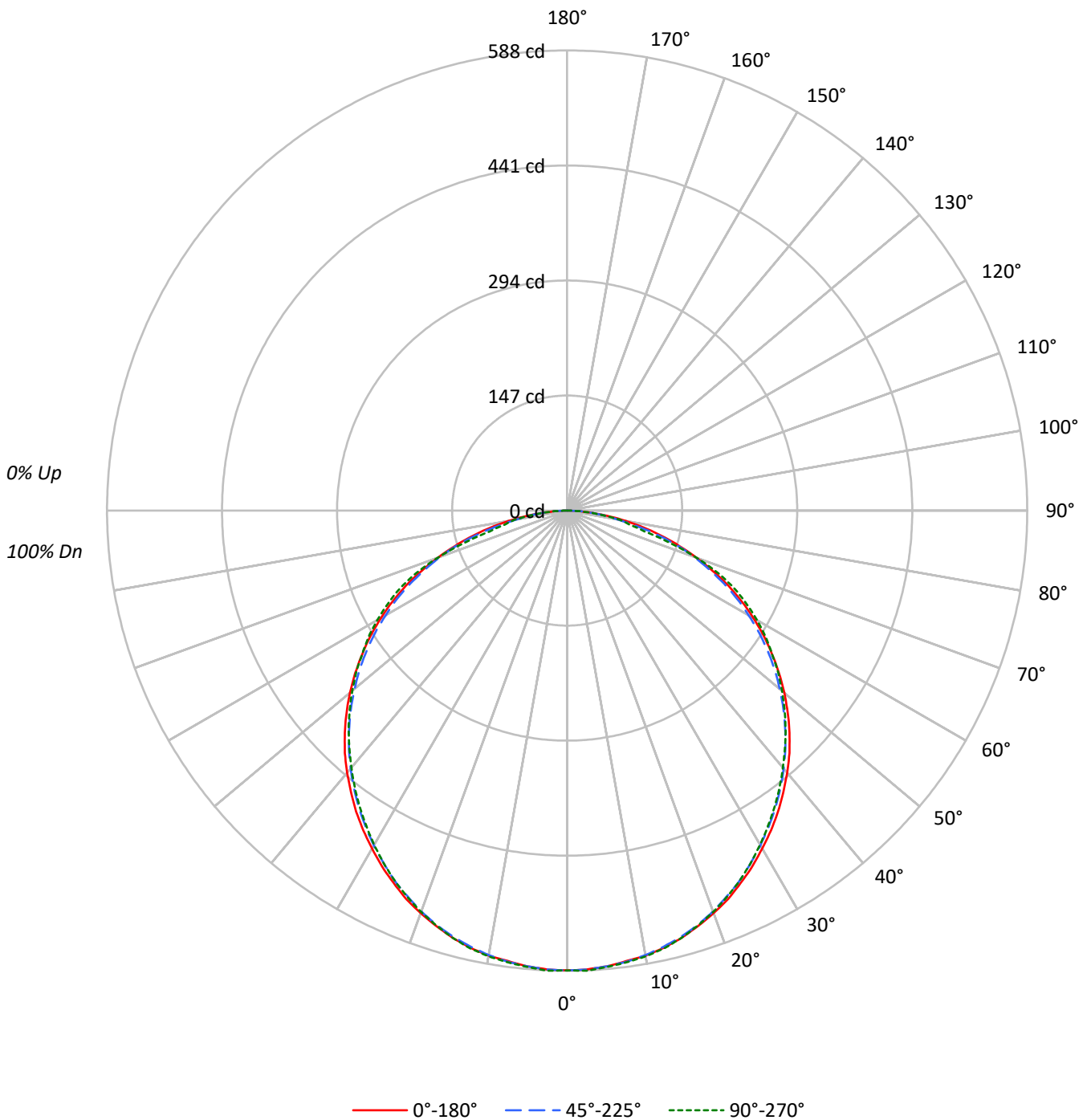
Input Watts (W): 15.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1581	1581	1581
5°	1579	1579	1581
10°	1578	1576	1580
15°	1574	1570	1574
20°	1567	1561	1563
25°	1559	1549	1549
30°	1549	1535	1532
35°	1544	1523	1518
40°	1537	1512	1507
45°	1529	1499	1502
50°	1517	1485	1500
55°	1500	1468	1500
60°	1479	1442	1508
65°	1449	1410	1503
70°	1382	1358	1382
75°	1304	1239	1063
80°	1176	1007	1068
85°	861	883	861



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.6	3.2
10°-20°	159.1	9.3
20°-30°	240.6	14.0
30°-40°	290.7	17.0
40°-50°	305.3	17.8
50°-60°	282.6	16.5
60°-70°	222.9	13.0
70°-80°	124.6	7.3
80°-90°	33.7	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°	455.3	26.5
0°-40°	746.0	43.5
0°-60°	1333.8	77.8
0°-90°	1715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1715.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	584	584	584	584	585	56
15°	565	564	564	564	565	159
25°	525	523	522	520	522	242
35°	470	468	464	461	462	294
45°	402	399	394	392	395	310
55°	320	317	313	314	320	286
65°	228	224	221	229	236	224
75°	125	123	119	108	102	132
85°	28	28	29	29	28	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	587.6	587.6	587.6	587.6	587.6
2.5°	586.8	586.0	586.8	586.8	588.4
5°	584.5	583.7	584.5	584.5	585.3
7.5°	580.6	580.6	581.4	581.4	582.2
10°	577.5	576.7	576.7	576.7	578.3
12.5°	572.1	570.6	570.6	571.3	572.9
15°	565.1	563.6	563.6	563.6	565.1
17.5°	556.6	555.8	555.1	555.1	555.8
20°	547.3	545.8	545.0	545.0	545.8
22.5°	537.3	534.9	533.4	532.6	534.2
25°	524.9	523.3	521.8	520.2	521.8
27.5°	512.5	510.2	507.8	506.3	507.8
30°	498.6	497.0	493.9	491.6	493.1
32.5°	484.6	483.1	479.2	476.9	477.7
35°	469.9	467.6	463.7	460.6	462.2
37.5°	453.7	452.1	447.5	444.4	445.9
40°	437.4	435.1	430.4	427.3	428.9
42.5°	420.4	417.3	412.6	409.5	411.8
45°	401.8	398.7	394.0	391.7	394.8
47.5°	382.4	379.3	374.7	373.1	377.0
50°	362.3	360.0	354.6	354.6	358.4
52.5°	341.4	338.3	334.4	335.2	339.9
55°	319.7	317.4	312.8	314.3	319.7
57.5°	298.0	295.0	291.1	294.2	301.1
60°	274.8	271.7	267.9	273.3	280.2
62.5°	251.6	248.5	245.4	251.6	258.6
65°	227.6	224.5	221.4	229.1	236.1
67.5°	201.3	198.2	195.9	203.6	209.0
70°	175.7	172.6	172.6	173.4	175.7
72.5°	150.2	148.6	147.1	141.7	138.6
75°	125.4	123.1	119.2	107.6	102.2
77.5°	99.9	97.5	90.6	80.5	81.3
80°	75.9	73.5	65.0	67.4	68.9
82.5°	51.1	50.3	48.0	47.2	47.2
85°	27.9	27.9	28.6	28.6	27.9
87.5°	11.6	11.6	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)