

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: P393236

Luminaire Tested: **22EN-LD2-19-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393236
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 (3500K)
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: 1754.5 lumens
Efficiency: N/A
Efficacy: 110.3 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

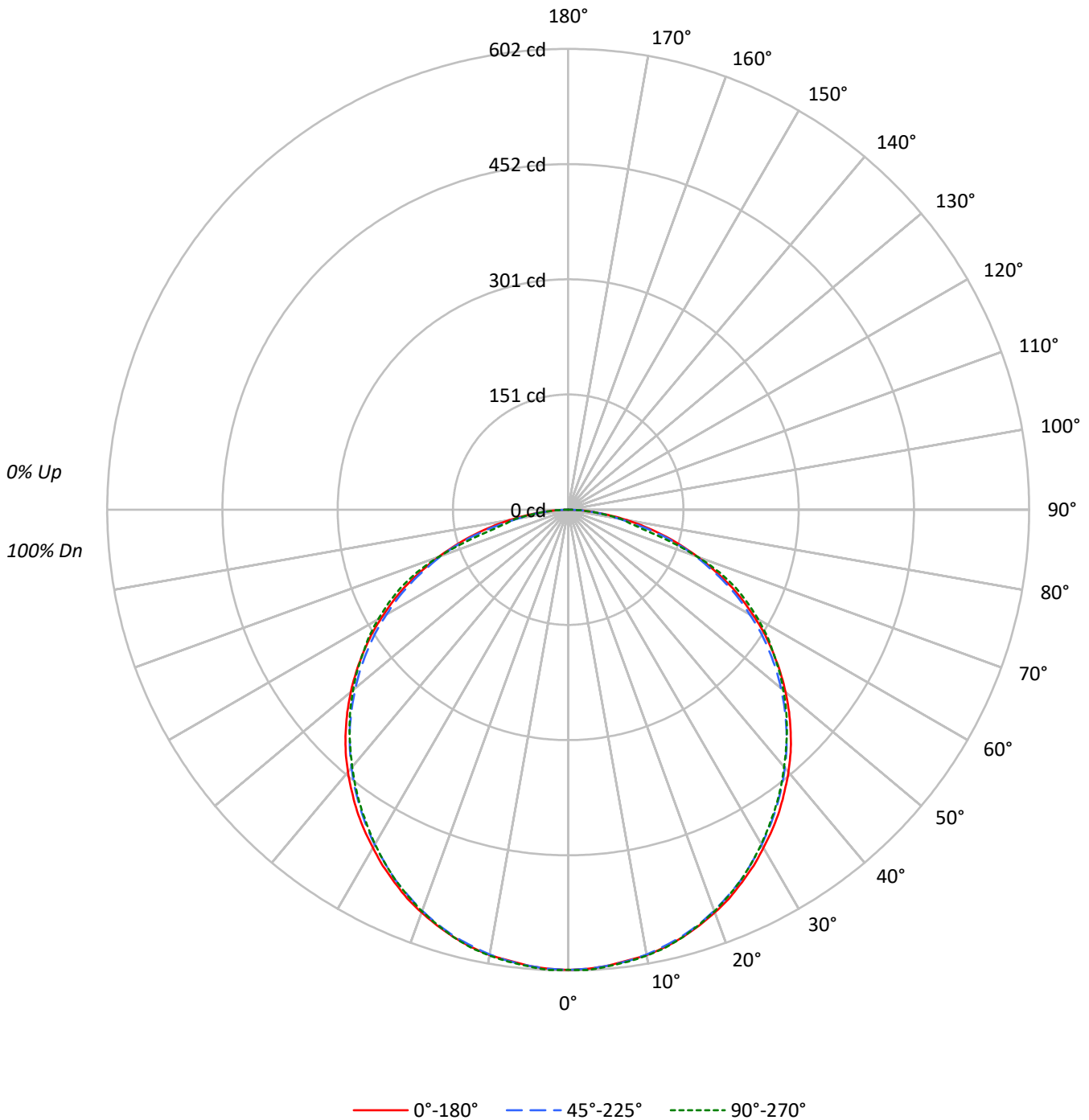
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1618	1618	1618
5°	1615	1615	1617
10°	1614	1612	1617
15°	1611	1606	1611
20°	1603	1597	1599
25°	1594	1585	1585
30°	1585	1570	1568
35°	1579	1558	1553
40°	1572	1547	1541
45°	1564	1534	1537
50°	1551	1518	1535
55°	1535	1501	1535
60°	1513	1475	1543
65°	1482	1442	1538
70°	1415	1389	1415
75°	1334	1268	1087
80°	1203	1031	1093
85°	880	905	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	3.2
10°-20°	162.8	9.3
20°-30°	246.1	14.0
30°-40°	297.4	17.0
40°-50°	312.3	17.8
50°-60°	289.1	16.5
60°-70°	228.0	13.0
70°-80°	127.5	7.3
80°-90°	34.5	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°	465.7	26.5
0°-40°	763.1	43.5
0°-60°	1364.5	77.8
0°-90°	1754.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	601	601	601	601	601	
5°	598	597	598	598	599	57
15°	578	576	576	576	578	163
25°	537	535	534	532	534	248
35°	481	478	474	471	473	301
45°	411	408	403	401	404	317
55°	327	325	320	322	327	292
65°	233	230	226	234	242	229
75°	128	126	122	110	104	135
85°	28	28	29	29	28	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	601.1	601.1	601.1	601.1	601.1
2.5°	600.3	599.5	600.3	600.3	601.9
5°	597.9	597.1	597.9	597.9	598.7
7.5°	594.0	594.0	594.8	594.8	595.5
10°	590.8	590.0	590.0	590.0	591.6
12.5°	585.3	583.7	583.7	584.5	586.0
15°	578.1	576.5	576.5	576.5	578.1
17.5°	569.4	568.6	567.8	567.8	568.6
20°	559.9	558.3	557.5	557.5	558.3
22.5°	549.6	547.2	545.7	544.9	546.4
25°	536.9	535.4	533.8	532.2	533.8
27.5°	524.3	521.9	519.5	517.9	519.5
30°	510.0	508.4	505.3	502.9	504.5
32.5°	495.8	494.2	490.2	487.8	488.6
35°	480.7	478.3	474.4	471.2	472.8
37.5°	464.1	462.5	457.7	454.6	456.2
40°	447.5	445.1	440.3	437.2	438.7
42.5°	430.0	426.9	422.1	418.9	421.3
45°	411.0	407.9	403.1	400.7	403.9
47.5°	391.2	388.1	383.3	381.7	385.7
50°	370.6	368.3	362.7	362.7	366.7
52.5°	349.3	346.1	342.1	342.9	347.7
55°	327.1	324.7	319.9	321.5	327.1
57.5°	304.9	301.7	297.8	300.9	308.1
60°	281.1	278.0	274.0	279.6	286.7
62.5°	257.4	254.2	251.0	257.4	264.5
65°	232.8	229.7	226.5	234.4	241.5
67.5°	205.9	202.7	200.4	208.3	213.8
70°	179.8	176.6	176.6	177.4	179.8
72.5°	153.6	152.1	150.5	144.9	141.8
75°	128.3	125.9	122.0	110.1	104.5
77.5°	102.2	99.8	92.7	82.4	83.2
80°	77.6	75.2	66.5	68.9	70.5
82.5°	52.3	51.5	49.1	48.3	48.3
85°	28.5	28.5	29.3	29.3	28.5
87.5°	11.9	11.9	12.7	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)