

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: P393268

Luminaire Tested: **22EN-LD2-25-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-25-UNV-L92765-W2A-1-U (3500K)  
Description: 2X2 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1981.5 lumens  
Efficiency: N/A  
Efficacy: 110.1 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

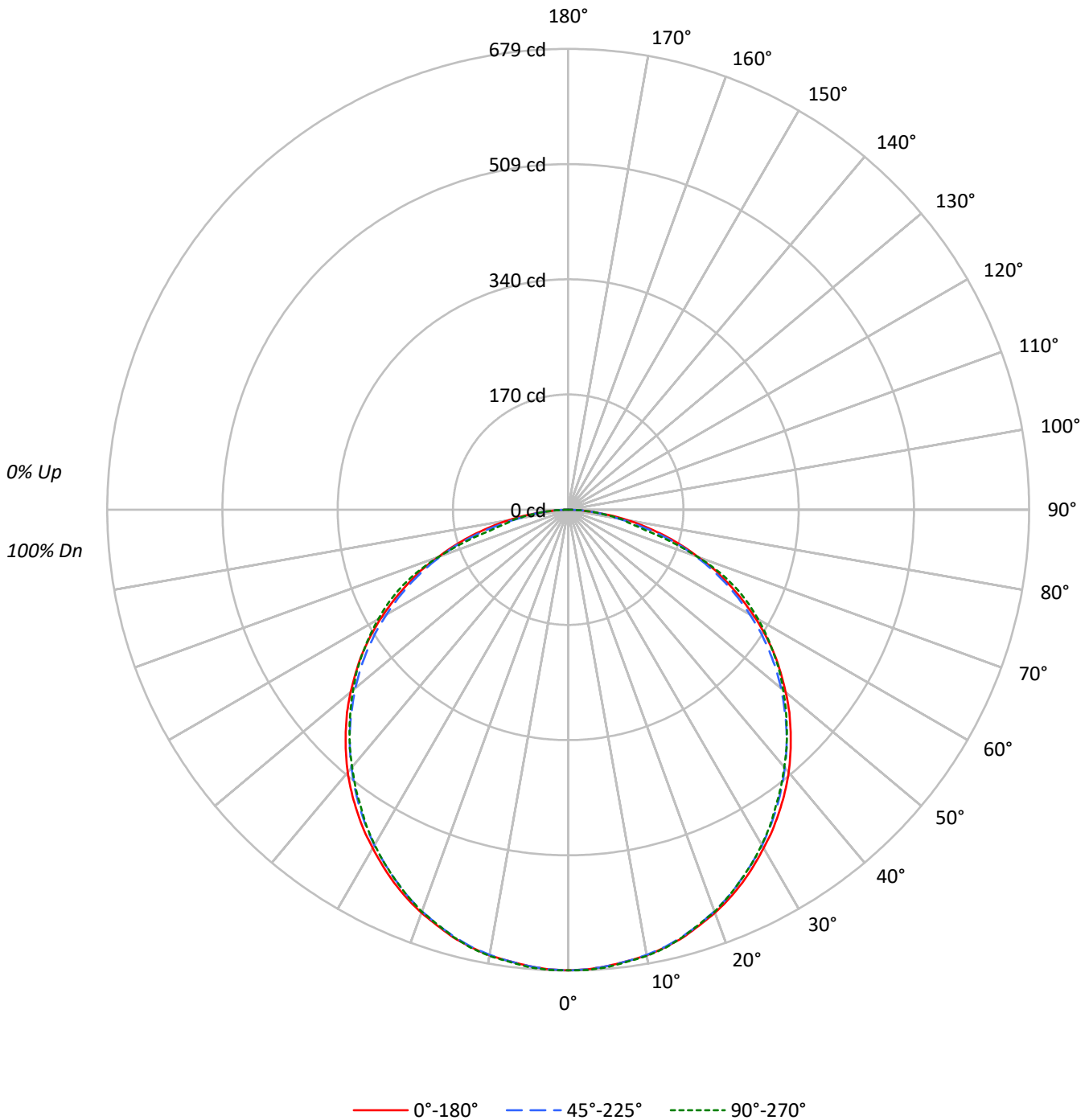
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	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	45	57	50	45	55	49	44	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°	1826	1826	1826
5°	1823	1823	1827
10°	1822	1820	1824
15°	1818	1814	1816
20°	1810	1803	1805
25°	1801	1787	1787
30°	1789	1774	1772
35°	1782	1759	1751
40°	1775	1744	1739
45°	1763	1730	1733
50°	1751	1714	1731
55°	1739	1694	1735
60°	1709	1662	1739
65°	1669	1629	1734
70°	1601	1564	1595
75°	1515	1433	1243
80°	1375	1153	1227
85°	1003	1028	1003



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	3.2
10°-20°	183.8	9.3
20°-30°	277.9	14.0
30°-40°	335.7	16.9
40°-50°	352.3	17.8
50°-60°	326.4	16.5
60°-70°	257.7	13.0
70°-80°	144.5	7.3
80°-90°	39.0	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°	525.8	26.5
0°-40°	861.5	43.5
0°-60°	1540.2	77.7
0°-90°	1981.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1981.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	679	679	679	679	679	
5°	675	674	675	676	676	64
15°	653	651	651	651	652	184
25°	607	604	602	600	602	280
35°	542	540	535	532	533	339
45°	463	459	455	452	455	358
55°	371	367	361	364	370	331
65°	262	259	256	264	272	259
75°	146	143	138	124	120	154
85°	32	32	33	32	32	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	678.7	678.7	678.7	678.7	678.7
2.5°	677.9	677.1	677.9	677.9	678.7
5°	674.7	674.0	674.7	675.5	676.3
7.5°	670.8	670.0	670.8	671.6	671.6
10°	666.8	665.2	666.0	666.8	667.6
12.5°	660.5	659.7	659.7	659.7	661.3
15°	652.6	651.0	651.0	651.0	651.8
17.5°	642.3	641.5	640.7	640.7	640.7
20°	632.0	630.4	629.6	628.8	630.4
22.5°	620.1	618.5	616.9	615.3	616.9
25°	606.6	604.3	601.9	600.3	601.9
27.5°	591.6	590.0	586.8	584.5	586.8
30°	575.8	573.4	571.0	568.6	570.2
32.5°	559.9	557.5	553.6	550.4	552.8
35°	542.5	540.1	535.4	532.2	533.0
37.5°	524.3	521.1	516.4	513.2	514.8
40°	505.3	502.1	496.6	492.6	495.0
42.5°	484.7	481.5	476.0	473.6	476.0
45°	463.3	459.3	454.6	452.2	455.4
47.5°	441.9	438.7	431.6	431.6	434.8
50°	418.2	415.0	409.4	409.4	413.4
52.5°	394.4	390.4	385.7	387.3	392.8
55°	370.6	366.7	361.1	364.3	369.8
57.5°	344.5	341.3	335.8	340.5	346.9
60°	317.6	313.6	308.9	315.2	323.1
62.5°	289.9	286.7	282.7	290.6	299.4
65°	262.1	259.0	255.8	264.5	272.4
67.5°	235.2	231.3	228.1	236.0	241.5
70°	203.5	201.2	198.8	200.4	202.7
72.5°	175.0	172.6	170.3	163.9	161.6
75°	145.7	143.3	137.8	124.3	119.6
77.5°	117.2	114.8	104.5	92.7	93.5
80°	88.7	86.3	74.4	76.8	79.2
82.5°	61.0	57.8	55.4	54.6	54.6
85°	32.5	32.5	33.3	32.5	32.5
87.5°	13.5	14.3	14.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)