

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: P393008

Luminaire Tested: **14EN-LD2-25-UNV-L83050-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393008  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-50)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-25-UNV-L83050-W2A-1-U (5700K)  
Description: 1X4 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2606.2 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

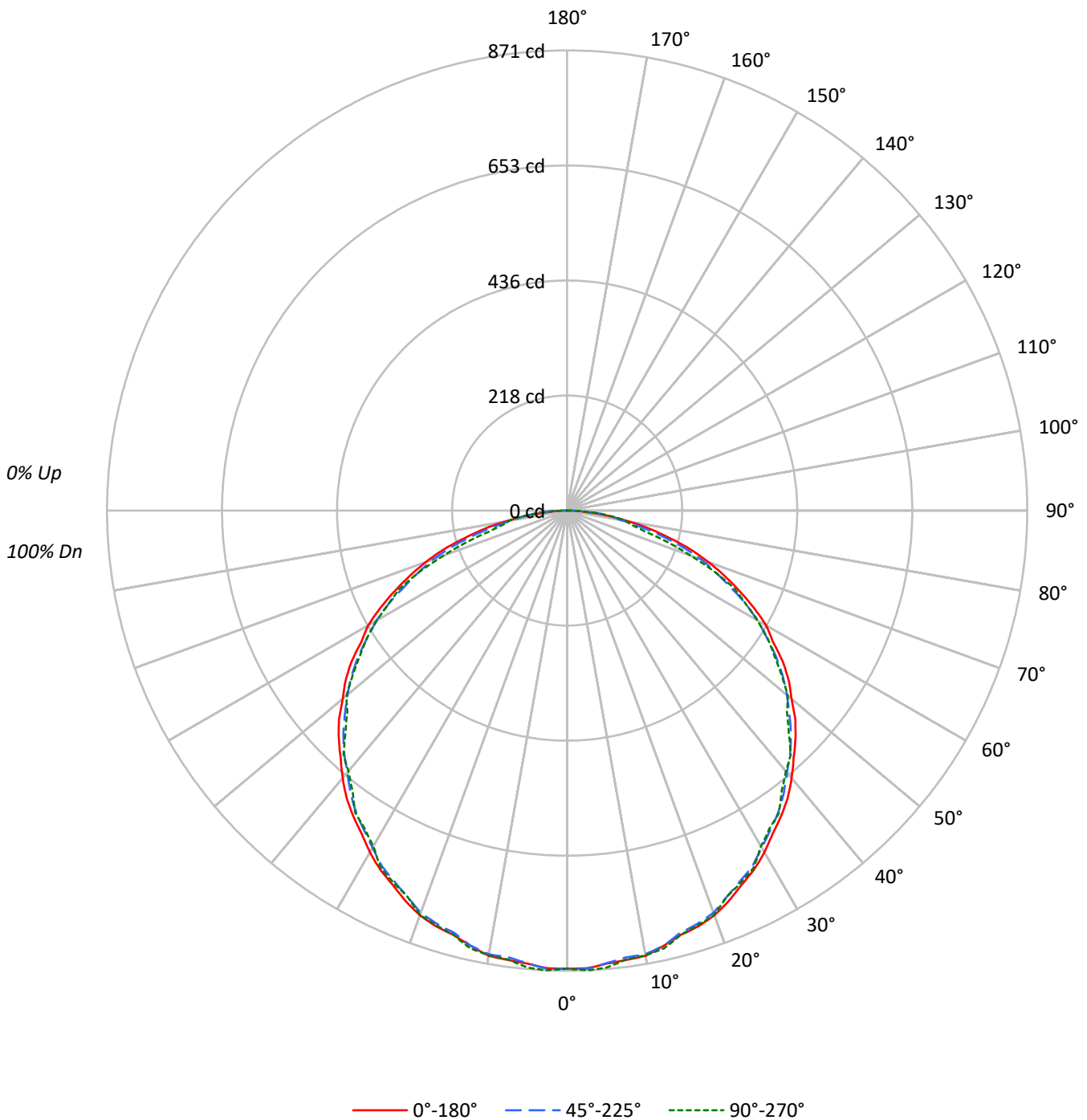
Input Watts (W): 26.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52		63	57	52		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2333	2333	2333
5°	2326	2323	2345
10°	2338	2330	2336
15°	2316	2305	2316
20°	2334	2320	2331
25°	2320	2299	2308
30°	2321	2289	2279
35°	2320	2289	2296
40°	2323	2273	2262
45°	2326	2280	2257
50°	2321	2274	2282
55°	2337	2266	2247
60°	2342	2243	2237
65°	2290	2160	2225
70°	2237	2124	1956
75°	2087	1917	1578
80°	1847	1595	1737
85°	1321	1794	1729



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.1	3.1
10°-20°	235.5	9.0
20°-30°	358.7	13.8
30°-40°	436.6	16.8
40°-50°	463.6	17.8
50°-60°	433.8	16.6
60°-70°	343.0	13.2
70°-80°	193.7	7.4
80°-90°	59.2	2.3
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°	676.3	25.9
0°-40°	1112.9	42.7
0°-60°	2010.2	77.1
0°-90°	2606.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2606.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	861	861	860	864	868	82
15°	831	834	827	836	831	236
25°	782	782	774	775	777	361
35°	706	705	697	692	699	442
45°	611	606	599	597	593	471
55°	498	491	483	479	479	444
65°	360	352	339	343	350	356
75°	201	196	184	163	152	213
85°	43	48	58	58	56	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	867.1	867.1	867.1	867.1	867.1
2.5°	867.1	869.1	868.1	865.0	871.1
5°	860.9	860.9	859.9	864.0	868.1
7.5°	857.9	858.9	852.8	860.9	856.9
10°	855.8	857.9	852.8	851.8	854.8
12.5°	843.6	842.6	843.6	843.6	848.7
15°	831.4	834.5	827.3	835.5	831.4
17.5°	825.3	829.4	820.2	821.2	823.2
20°	815.1	811.0	810.0	806.9	814.1
22.5°	799.8	793.7	790.6	794.7	790.6
25°	781.5	782.5	774.3	775.4	777.4
27.5°	766.2	765.2	759.1	757.0	763.1
30°	746.8	740.7	736.6	737.7	733.6
32.5°	724.4	723.4	716.3	715.2	713.2
35°	706.1	705.1	696.9	691.8	698.9
37.5°	685.7	678.6	673.5	670.4	667.4
40°	661.2	657.2	647.0	644.9	643.9
42.5°	634.8	634.8	624.6	618.5	626.6
45°	611.3	606.2	599.1	597.1	593.0
47.5°	585.8	580.8	570.6	567.5	564.5
50°	554.3	554.3	543.1	539.0	545.1
52.5°	528.8	523.7	514.5	512.5	511.5
55°	498.2	491.1	482.9	478.9	478.9
57.5°	461.5	459.5	448.3	445.2	449.3
60°	435.1	426.9	416.7	413.7	415.7
62.5°	398.4	391.2	380.0	378.0	380.0
65°	359.7	352.5	339.3	343.4	349.5
67.5°	322.0	315.8	303.6	306.7	301.6
70°	284.3	278.2	270.0	258.8	248.6
72.5°	245.5	234.3	229.2	207.8	200.7
75°	200.7	195.6	184.4	163.0	151.8
77.5°	161.0	155.9	141.6	123.3	124.3
80°	119.2	123.3	102.9	109.0	112.1
82.5°	79.5	79.5	84.6	88.6	88.6
85°	42.8	47.9	58.1	58.1	56.0
87.5°	16.3	23.4	25.5	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)