

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: P393082

Luminaire Tested: **14EN-LD2-33-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-33-UNV-L93050-W2A-1-U (2700K)  
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2853.6 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

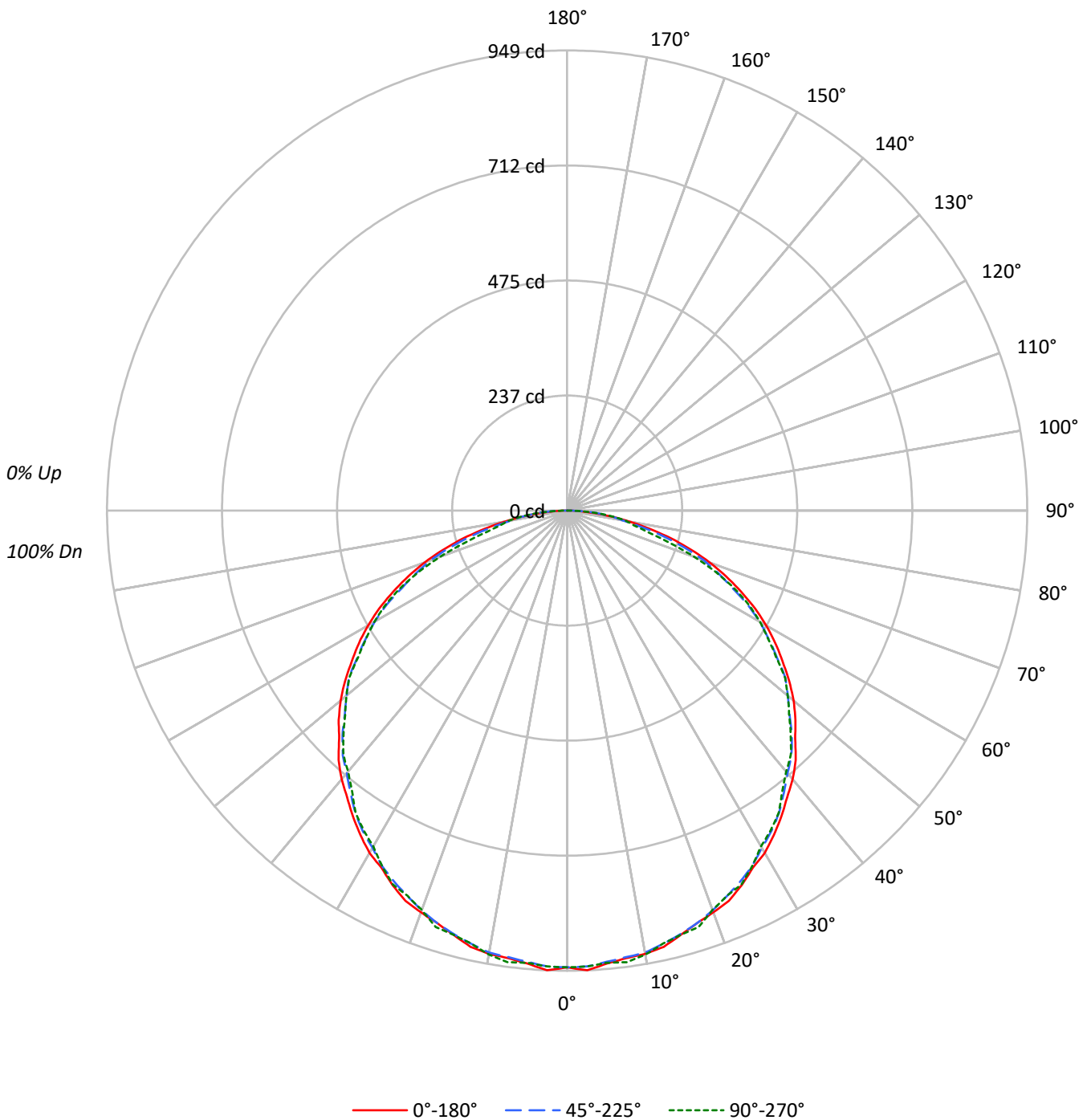
Input Watts (W): 31  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	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	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
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°	2535	2535	2535
5°	2533	2524	2528
10°	2536	2529	2541
15°	2523	2518	2523
20°	2525	2512	2510
25°	2530	2507	2525
30°	2533	2495	2484
35°	2530	2502	2499
40°	2542	2484	2469
45°	2530	2494	2481
50°	2552	2487	2487
55°	2544	2479	2467
60°	2551	2468	2472
65°	2518	2386	2425
70°	2460	2357	2201
75°	2307	2146	1796
80°	2021	1793	1914
85°	1494	1920	1920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	3.1
10°-20°	255.9	9.0
20°-30°	390.3	13.7
30°-40°	476.6	16.7
40°-50°	507.1	17.8
50°-60°	476.2	16.7
60°-70°	378.3	13.3
70°-80°	215.1	7.5
80°-90°	64.8	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°	735.4	25.8
0°-40°	1212.1	42.5
0°-60°	2195.4	76.9
0°-90°	2853.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2853.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	938	938	934	939	936	89
15°	906	909	904	908	906	256
25°	852	850	844	845	850	393
35°	770	766	762	758	761	482
45°	665	664	655	654	652	515
55°	542	539	528	528	526	486
65°	396	389	375	381	381	391
75°	222	216	206	181	173	233
85°	48	53	62	60	62	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	942.0	942.0	942.0	942.0	942.0
2.5°	948.9	942.0	941.1	942.0	941.1
5°	937.7	937.7	934.2	939.4	936.0
7.5°	930.8	934.2	929.1	934.2	939.4
10°	928.2	927.3	925.6	924.7	929.9
12.5°	921.3	917.0	915.2	917.8	914.4
15°	905.7	909.2	904.0	907.5	905.7
17.5°	891.9	896.2	891.9	893.7	900.6
20°	881.6	882.4	877.2	878.1	876.4
22.5°	871.2	864.3	860.8	861.7	860.0
25°	852.2	850.5	844.4	845.3	850.5
27.5°	829.8	831.5	826.3	825.4	826.3
30°	815.1	810.8	803.0	803.9	799.5
32.5°	793.5	788.3	784.0	779.7	781.4
35°	770.2	765.9	761.5	758.1	760.7
37.5°	745.1	742.6	733.9	733.1	728.7
40°	723.6	715.8	707.2	704.6	702.8
42.5°	697.7	693.3	684.7	680.4	683.0
45°	664.8	664.0	655.3	653.6	651.9
47.5°	638.9	632.9	621.7	622.5	620.8
50°	609.6	604.4	594.0	590.6	594.0
52.5°	577.6	575.0	567.3	563.8	566.4
55°	542.2	538.8	528.4	527.6	525.8
57.5°	509.4	504.2	493.0	489.6	491.3
60°	474.0	468.8	458.5	453.3	459.3
62.5°	436.9	430.0	418.8	419.6	423.1
65°	395.5	389.4	374.7	380.8	380.8
67.5°	354.9	348.8	336.7	336.7	331.6
70°	312.6	304.8	299.6	287.5	279.8
72.5°	267.7	259.9	253.8	233.1	221.9
75°	221.9	215.9	206.4	181.3	172.7
77.5°	174.4	172.7	158.0	139.0	141.6
80°	130.4	133.0	115.7	122.6	123.5
82.5°	88.9	88.9	91.5	96.7	96.7
85°	48.4	52.7	62.2	60.4	62.2
87.5°	18.1	25.9	28.5	26.8	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)