

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: P393089

Luminaire Tested: **14EN-LD2-33-UNV-L93050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393089  
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 (6500K)  
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2915.4 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

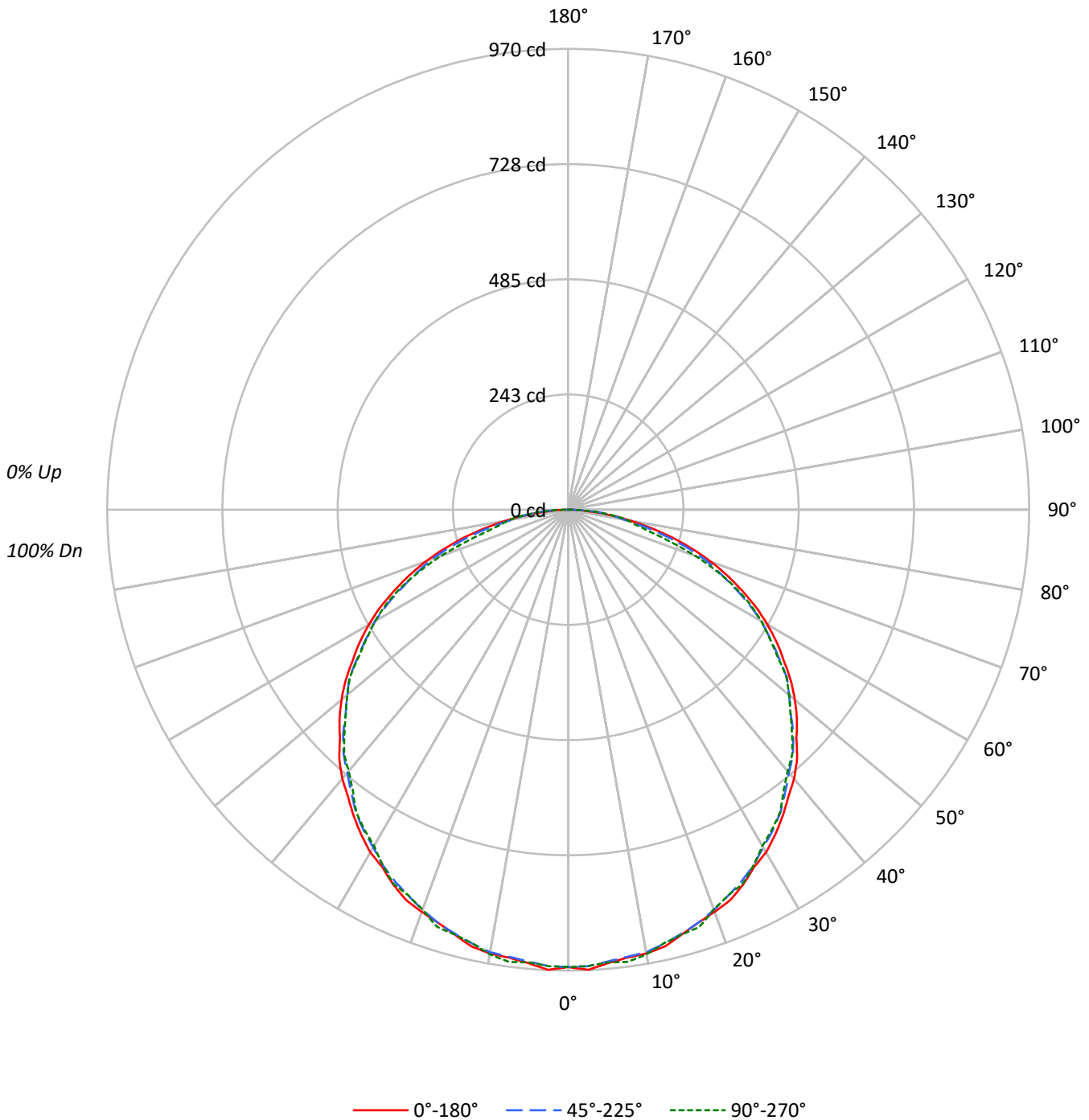
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57					57			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48					48			
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42					42			
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28					28			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

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

	0°	45°	90°
0°	2590	2590	2590
5°	2588	2578	2583
10°	2591	2584	2596
15°	2578	2573	2578
20°	2579	2567	2564
25°	2585	2561	2580
30°	2588	2549	2538
35°	2585	2556	2553
40°	2597	2538	2523
45°	2585	2548	2535
50°	2607	2541	2541
55°	2599	2533	2520
60°	2606	2521	2526
65°	2572	2438	2477
70°	2512	2408	2249
75°	2357	2192	1834
80°	2064	1832	1954
85°	1525	1961	1961



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.1	3.1
10°-20°	261.5	9.0
20°-30°	398.8	13.7
30°-40°	487.0	16.7
40°-50°	518.1	17.8
50°-60°	486.5	16.7
60°-70°	386.5	13.3
70°-80°	219.7	7.5
80°-90°	66.2	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°	751.4	25.8
0°-40°	1238.3	42.5
0°-60°	2243.0	76.9
0°-90°	2915.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2915.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	958	958	954	960	956	91
15°	925	929	924	927	925	262
25°	871	869	863	864	869	401
35°	787	782	778	774	777	493
45°	679	678	670	668	666	527
55°	554	550	540	539	537	496
65°	404	398	383	389	389	400
75°	227	220	211	185	176	239
85°	49	54	64	62	64	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	962.4	962.4	962.4	962.4	962.4
2.5°	969.5	962.4	961.5	962.4	961.5
5°	958.0	958.0	954.5	959.8	956.3
7.5°	951.0	954.5	949.2	954.5	959.8
10°	948.3	947.4	945.7	944.8	950.1
12.5°	941.3	936.8	935.1	937.7	934.2
15°	925.4	928.9	923.6	927.1	925.4
17.5°	911.3	915.7	911.3	913.0	920.1
20°	900.7	901.6	896.3	897.1	895.4
22.5°	890.1	883.0	879.5	880.4	878.6
25°	870.7	868.9	862.7	863.6	868.9
27.5°	847.7	849.5	844.2	843.3	844.2
30°	832.8	828.3	820.4	821.3	816.9
32.5°	810.7	805.4	801.0	796.6	798.3
35°	786.9	782.5	778.1	774.5	777.2
37.5°	761.3	758.6	749.8	748.9	744.5
40°	739.2	731.3	722.5	719.8	718.1
42.5°	712.8	708.4	699.5	695.1	697.8
45°	679.3	678.4	669.6	667.8	666.0
47.5°	652.8	646.6	635.1	636.0	634.3
50°	622.8	617.5	606.9	603.4	606.9
52.5°	590.2	587.5	579.6	576.0	578.7
55°	554.0	550.5	539.9	539.0	537.2
57.5°	520.5	515.2	503.7	500.2	501.9
60°	484.3	479.0	468.4	463.1	469.3
62.5°	446.4	439.3	427.8	428.7	432.3
65°	404.0	397.8	382.9	389.0	389.0
67.5°	362.6	356.4	344.0	344.0	338.7
70°	319.3	311.4	306.1	293.8	285.8
72.5°	273.5	265.5	259.4	238.2	226.7
75°	226.7	220.5	210.8	185.3	176.4
77.5°	178.2	176.4	161.4	142.0	144.7
80°	133.2	135.9	118.2	125.3	126.1
82.5°	90.9	90.9	93.5	98.8	98.8
85°	49.4	53.8	63.5	61.8	63.5
87.5°	18.5	26.5	29.1	27.3	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)