

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: P393085

Luminaire Tested: **14EN-LD2-33-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393085  
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 (4000K)  
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: 2886.9 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

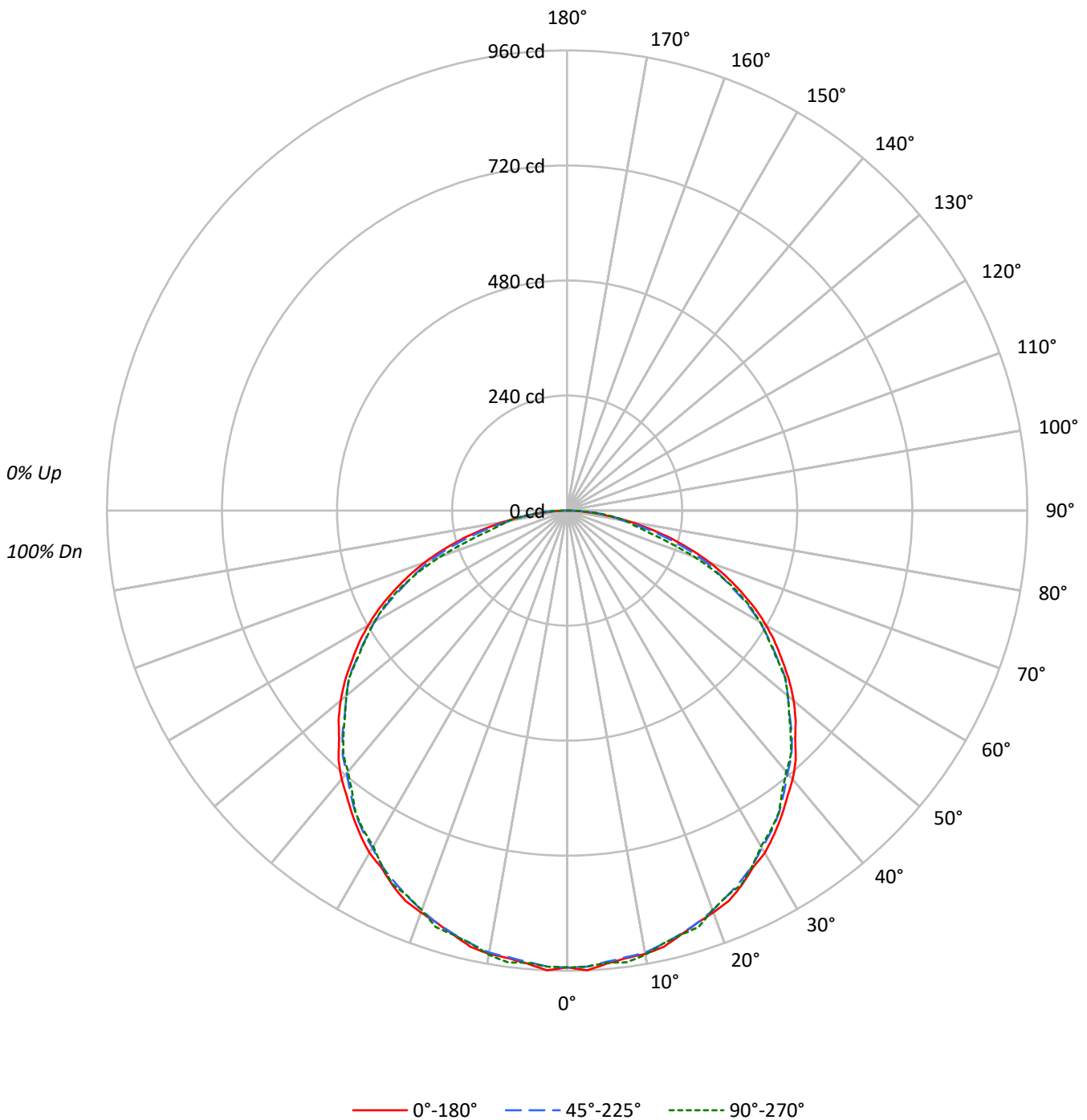
Input Watts (W): 30.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2565	2565	2565
5°	2562	2553	2558
10°	2566	2559	2571
15°	2553	2548	2553
20°	2554	2542	2539
25°	2560	2537	2555
30°	2562	2524	2513
35°	2560	2531	2528
40°	2571	2513	2498
45°	2560	2523	2510
50°	2582	2516	2516
55°	2574	2508	2496
60°	2581	2496	2501
65°	2548	2414	2453
70°	2488	2385	2227
75°	2334	2171	1816
80°	2044	1815	1936
85°	1510	1942	1942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.2	3.1
10°-20°	258.9	9.0
20°-30°	394.9	13.7
30°-40°	482.2	16.7
40°-50°	513.1	17.8
50°-60°	481.7	16.7
60°-70°	382.7	13.3
70°-80°	217.6	7.5
80°-90°	65.6	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°	744.0	25.8
0°-40°	1226.2	42.5
0°-60°	2221.0	76.9
0°-90°	2886.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2886.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	949	949	945	950	947	90
15°	916	920	915	918	916	259
25°	862	860	854	855	860	397
35°	779	775	770	767	770	488
45°	673	672	663	661	660	521
55°	549	545	535	534	532	491
65°	400	394	379	385	385	396
75°	224	218	209	183	175	236
85°	49	53	63	61	63	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	953.0	953.0	953.0	953.0	953.0
2.5°	960.0	953.0	952.1	953.0	952.1
5°	948.6	948.6	945.1	950.4	946.9
7.5°	941.6	945.1	939.9	945.1	950.4
10°	939.0	938.1	936.4	935.5	940.8
12.5°	932.0	927.7	925.9	928.5	925.0
15°	916.3	919.8	914.6	918.1	916.3
17.5°	902.3	906.7	902.3	904.1	911.1
20°	891.9	892.7	887.5	888.4	886.6
22.5°	881.4	874.4	870.9	871.8	870.0
25°	862.2	860.4	854.3	855.2	860.4
27.5°	839.4	841.2	835.9	835.1	835.9
30°	824.6	820.2	812.4	813.2	808.9
32.5°	802.8	797.5	793.1	788.8	790.5
35°	779.2	774.8	770.4	766.9	769.6
37.5°	753.8	751.2	742.5	741.6	737.2
40°	732.0	724.1	715.4	712.8	711.0
42.5°	705.8	701.4	692.7	688.3	690.9
45°	672.6	671.7	663.0	661.2	659.5
47.5°	646.4	640.3	628.9	629.8	628.1
50°	616.7	611.5	601.0	597.5	601.0
52.5°	584.4	581.8	573.9	570.4	573.0
55°	548.6	545.1	534.6	533.7	532.0
57.5°	515.4	510.1	498.8	495.3	497.0
60°	479.6	474.3	463.8	458.6	464.7
62.5°	442.0	435.0	423.7	424.5	428.0
65°	400.1	394.0	379.1	385.2	385.2
67.5°	359.0	352.9	340.7	340.7	335.4
70°	316.2	308.3	303.1	290.9	283.0
72.5°	270.8	262.9	256.8	235.8	224.5
75°	224.5	218.4	208.8	183.4	174.7
77.5°	176.4	174.7	159.9	140.6	143.3
80°	131.9	134.5	117.1	124.0	124.9
82.5°	90.0	90.0	92.6	97.8	97.8
85°	48.9	53.3	62.9	61.1	62.9
87.5°	18.3	26.2	28.8	27.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)