

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: P393066

Luminaire Tested: **14EN-LD2-33-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393066
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-L83050-W2A-1-U (2700K)
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3188.7 lumens
Efficiency: N/A
Efficacy: 103.9 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

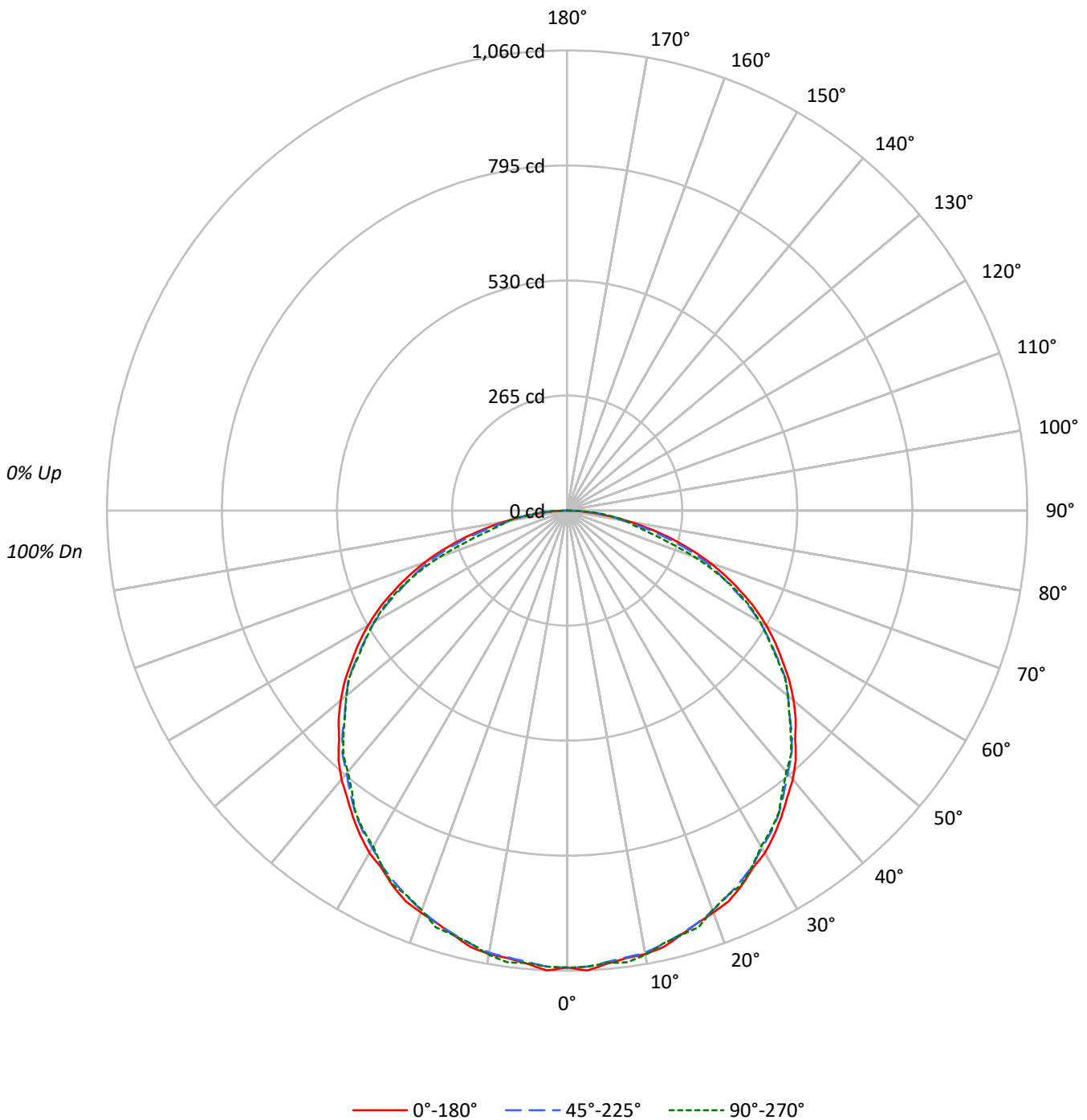
Input Watts (W): 30.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2833	2833	2833
5°	2830	2820	2825
10°	2834	2826	2839
15°	2820	2814	2820
20°	2821	2807	2804
25°	2828	2802	2822
30°	2830	2788	2776
35°	2827	2796	2792
40°	2840	2776	2759
45°	2827	2787	2772
50°	2852	2779	2779
55°	2843	2770	2757
60°	2851	2757	2763
65°	2814	2666	2709
70°	2748	2634	2460
75°	2578	2398	2007
80°	2258	2004	2139
85°	1667	2146	2146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	3.1
10°-20°	286.0	9.0
20°-30°	436.2	13.7
30°-40°	532.6	16.7
40°-50°	566.7	17.8
50°-60°	532.1	16.7
60°-70°	422.7	13.3
70°-80°	240.4	7.5
80°-90°	72.5	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°	821.8	25.8
0°-40°	1354.4	42.5
0°-60°	2453.2	76.9
0°-90°	3188.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3188.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1048	1048	1044	1050	1046	100
15°	1012	1016	1010	1014	1012	286
25°	952	950	944	945	950	439
35°	861	856	851	847	850	539
45°	743	742	732	730	728	576
55°	606	602	590	590	588	543
65°	442	435	419	426	426	437
75°	248	241	231	203	193	261
85°	54	59	70	68	70	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.6	1052.6	1052.6	1052.6	1052.6
2.5°	1060.3	1052.6	1051.7	1052.6	1051.7
5°	1047.8	1047.8	1043.9	1049.7	1045.9
7.5°	1040.1	1043.9	1038.1	1043.9	1049.7
10°	1037.2	1036.2	1034.3	1033.3	1039.1
12.5°	1029.5	1024.6	1022.7	1025.6	1021.7
15°	1012.1	1016.0	1010.2	1014.0	1012.1
17.5°	996.7	1001.5	996.7	998.6	1006.3
20°	985.1	986.0	980.3	981.2	979.3
22.5°	973.5	965.8	961.9	962.9	961.0
25°	952.3	950.4	943.6	944.6	950.4
27.5°	927.2	929.1	923.3	922.4	923.3
30°	910.8	906.0	897.3	898.2	893.4
32.5°	886.7	880.9	876.1	871.2	873.2
35°	860.6	855.8	851.0	847.1	850.0
37.5°	832.6	829.7	820.1	819.1	814.3
40°	808.5	799.8	790.2	787.3	785.4
42.5°	779.6	774.8	765.1	760.3	763.2
45°	742.9	741.9	732.3	730.4	728.4
47.5°	714.0	707.2	694.7	695.6	693.7
50°	681.2	675.4	663.8	659.9	663.8
52.5°	645.5	642.6	633.9	630.0	632.9
55°	605.9	602.0	590.5	589.5	587.6
57.5°	569.2	563.5	550.9	547.1	549.0
60°	529.7	523.9	512.3	506.5	513.3
62.5°	488.2	480.5	467.9	468.9	472.8
65°	441.9	435.1	418.7	425.5	425.5
67.5°	396.5	389.8	376.3	376.3	370.5
70°	349.3	340.6	334.8	321.3	312.6
72.5°	299.1	290.4	283.7	260.5	248.0
75°	248.0	241.2	230.6	202.6	193.0
77.5°	194.9	193.0	176.6	155.3	158.2
80°	145.7	148.6	129.3	137.0	138.0
82.5°	99.4	99.4	102.3	108.1	108.1
85°	54.0	58.9	69.5	67.5	69.5
87.5°	20.3	28.9	31.8	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)