

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: P393073

Luminaire Tested: **14EN-LD2-33-UNV-L83050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393073
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 (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: 3367.3 lumens
Efficiency: N/A
Efficacy: 109.0 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

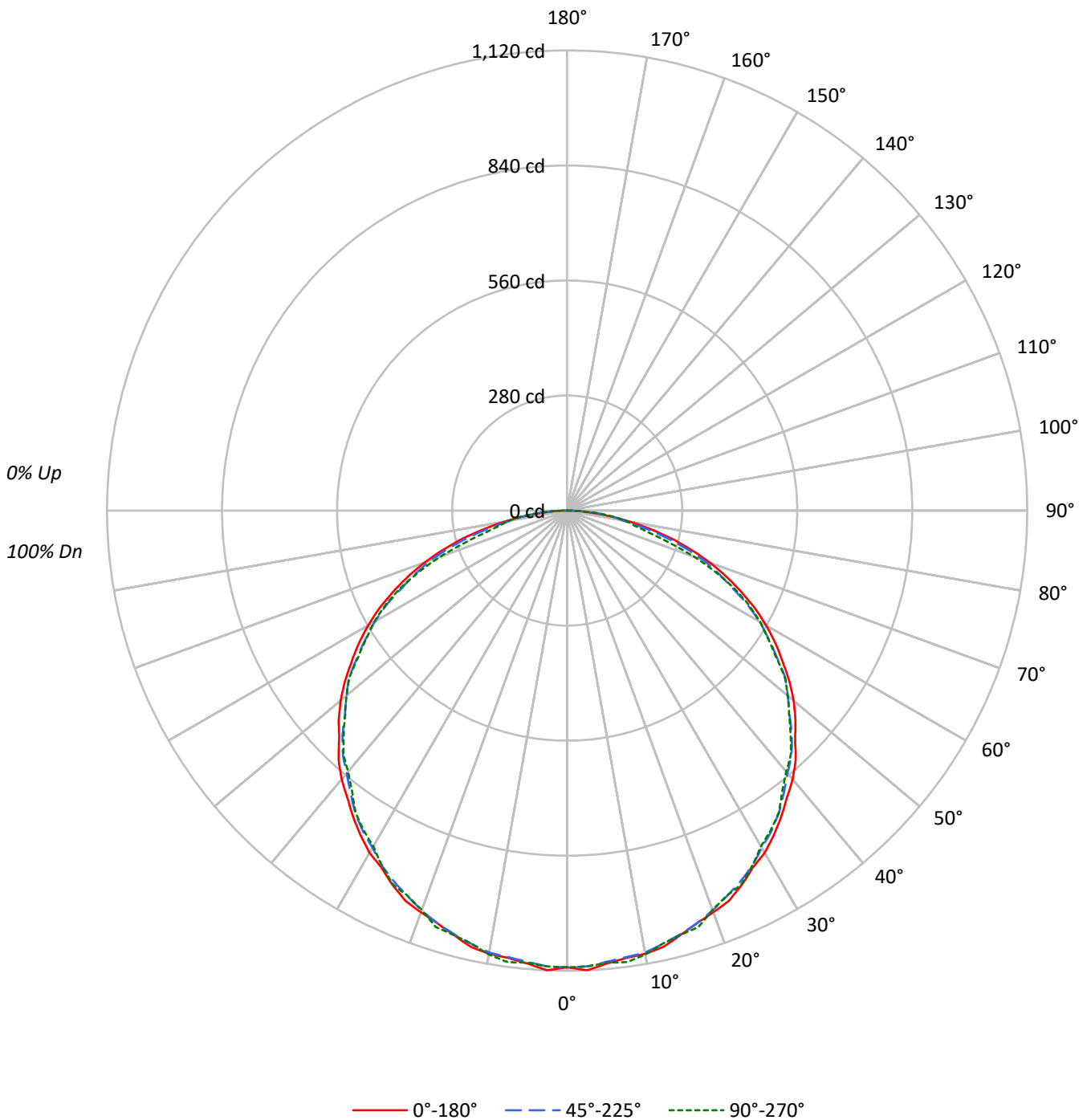
Input Watts (W): 30.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2991	2991	2991
5°	2989	2978	2984
10°	2993	2984	2998
15°	2978	2972	2978
20°	2979	2964	2961
25°	2986	2959	2980
30°	2989	2944	2932
35°	2985	2952	2949
40°	2999	2931	2914
45°	2986	2943	2927
50°	3011	2935	2935
55°	3002	2925	2911
60°	3011	2912	2917
65°	2971	2816	2861
70°	2902	2781	2597
75°	2722	2532	2119
80°	2383	2115	2258
85°	1763	2266	2266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	3.1
10°-20°	302.0	9.0
20°-30°	460.6	13.7
30°-40°	562.4	16.7
40°-50°	598.4	17.8
50°-60°	561.9	16.7
60°-70°	446.4	13.3
70°-80°	253.8	7.5
80°-90°	76.5	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°	867.8	25.8
0°-40°	1430.3	42.5
0°-60°	2590.6	76.9
0°-90°	3367.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3367.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1106	1106	1102	1108	1104	105
15°	1069	1073	1067	1071	1069	302
25°	1006	1004	996	998	1004	463
35°	909	904	899	895	898	569
45°	784	784	773	771	769	608
55°	640	636	624	622	620	573
65°	467	460	442	449	449	462
75°	262	255	244	214	204	275
85°	57	62	73	71	73	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.6	1111.6	1111.6	1111.6	1111.6
2.5°	1119.7	1111.6	1110.6	1111.6	1110.6
5°	1106.5	1106.5	1102.4	1108.5	1104.5
7.5°	1098.3	1102.4	1096.3	1102.4	1108.5
10°	1095.3	1094.3	1092.2	1091.2	1097.3
12.5°	1087.1	1082.0	1080.0	1083.1	1079.0
15°	1068.8	1072.9	1066.8	1070.8	1068.8
17.5°	1052.5	1057.6	1052.5	1054.5	1062.7
20°	1040.3	1041.3	1035.2	1036.2	1034.1
22.5°	1028.0	1019.9	1015.8	1016.8	1014.8
25°	1005.6	1003.6	996.5	997.5	1003.6
27.5°	979.1	981.2	975.1	974.0	975.1
30°	961.8	956.7	947.5	948.6	943.5
32.5°	936.3	930.2	925.1	920.0	922.1
35°	908.8	903.7	898.6	894.6	897.6
37.5°	879.3	876.2	866.0	865.0	859.9
40°	853.8	844.6	834.5	831.4	829.4
42.5°	823.2	818.1	808.0	802.9	805.9
45°	784.5	783.5	773.3	771.3	769.2
47.5°	754.0	746.8	733.6	734.6	732.6
50°	719.3	713.2	701.0	696.9	701.0
52.5°	681.6	678.6	669.4	665.3	668.4
55°	639.8	635.8	623.5	622.5	620.5
57.5°	601.1	595.0	581.8	577.7	579.7
60°	559.4	553.2	541.0	534.9	542.0
62.5°	515.5	507.4	494.2	495.2	499.2
65°	466.6	459.5	442.2	449.3	449.3
67.5°	418.8	411.6	397.4	397.4	391.2
70°	368.8	359.7	353.5	339.3	330.1
72.5°	315.8	306.7	299.5	275.1	261.8
75°	261.8	254.7	243.5	214.0	203.8
77.5°	205.8	203.8	186.5	164.0	167.1
80°	153.8	156.9	136.5	144.7	145.7
82.5°	104.9	104.9	108.0	114.1	114.1
85°	57.1	62.2	73.4	71.3	73.4
87.5°	21.4	30.6	33.6	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)