

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: P393068

Luminaire Tested: **14EN-LD2-33-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393068
Test Lab: INNOVATION CENTER (G3)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-33-UNV-L83050-W2A-1-U (3500K)
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: 3304.9 lumens
Efficiency: N/A
Efficacy: 104.9 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

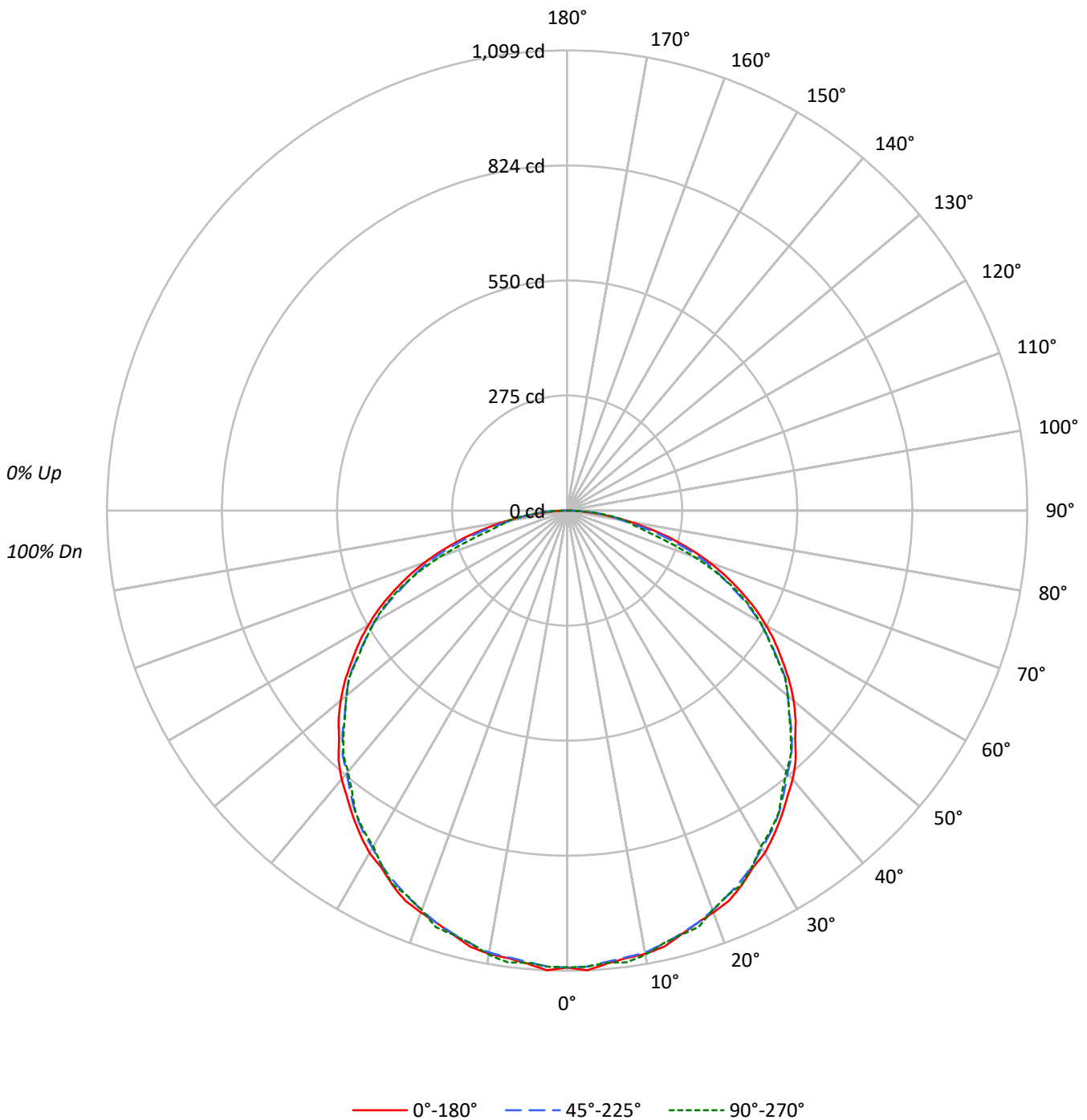
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2936	2936	2936
5°	2934	2923	2928
10°	2937	2929	2943
15°	2922	2917	2922
20°	2924	2909	2907
25°	2931	2904	2925
30°	2933	2890	2877
35°	2930	2897	2894
40°	2944	2877	2859
45°	2930	2888	2873
50°	2956	2880	2880
55°	2946	2871	2857
60°	2955	2858	2863
65°	2916	2763	2808
70°	2848	2730	2549
75°	2672	2485	2079
80°	2340	2077	2216
85°	1729	2223	2223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	3.1
10°-20°	296.4	9.0
20°-30°	452.1	13.7
30°-40°	552.0	16.7
40°-50°	587.4	17.8
50°-60°	551.5	16.7
60°-70°	438.1	13.3
70°-80°	249.1	7.5
80°-90°	75.1	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°	851.8	25.8
0°-40°	1403.8	42.5
0°-60°	2542.6	76.9
0°-90°	3304.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3304.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1086	1086	1082	1088	1084	103
15°	1049	1053	1047	1051	1049	297
25°	987	985	978	979	985	455
35°	892	887	882	878	881	559
45°	770	769	759	757	755	597
55°	628	624	612	611	609	563
65°	458	451	434	441	441	453
75°	257	250	239	210	200	270
85°	56	61	72	70	72	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091	1091	1091	1091	1091
2.5°	1099	1091	1090	1091	1090
5°	1086	1086	1082	1088	1084
7.5°	1078	1082	1076	1082	1088
10°	1075	1074	1072	1071	1077
12.5°	1067	1062	1060	1063	1059
15°	1049	1053	1047	1051	1049
17.5°	1033	1038	1033	1035	1043
20°	1021	1022	1016	1017	1015
22.5°	1009	1001	997	998	996
25°	987	985	978	979	985
27.5°	961	963	957	956	957
30°	944	939	930	931	926
32.5°	919	913	908	903	905
35°	892	887	882	878	881
37.5°	863	860	850	849	844
40°	838	829	819	816	814
42.5°	808	803	793	788	791
45°	770	769	759	757	755
47.5°	740	733	720	721	719
50°	706	700	688	684	688
52.5°	669	666	657	653	656
55°	628	624	612	611	609
57.5°	590	584	571	567	569
60°	549	543	531	525	532
62.5°	506	498	485	486	490
65°	458	451	434	441	441
67.5°	411	404	390	390	384
70°	362	353	347	333	324
72.5°	310	301	294	270	257
75°	257	250	239	210	200
77.5°	202	200	183	161	164
80°	151	154	134	142	143
82.5°	103	103	106	112	112
85°	56	61	72	70	72
87.5°	21	30	33	31	31
90°	0	0	0	0	0

(END OF REPORT)