

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: P393059

Luminaire Tested: **14EN-LD2-33-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393059
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-L82765-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3031.4 lumens
Efficiency: N/A
Efficacy: 97.2 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

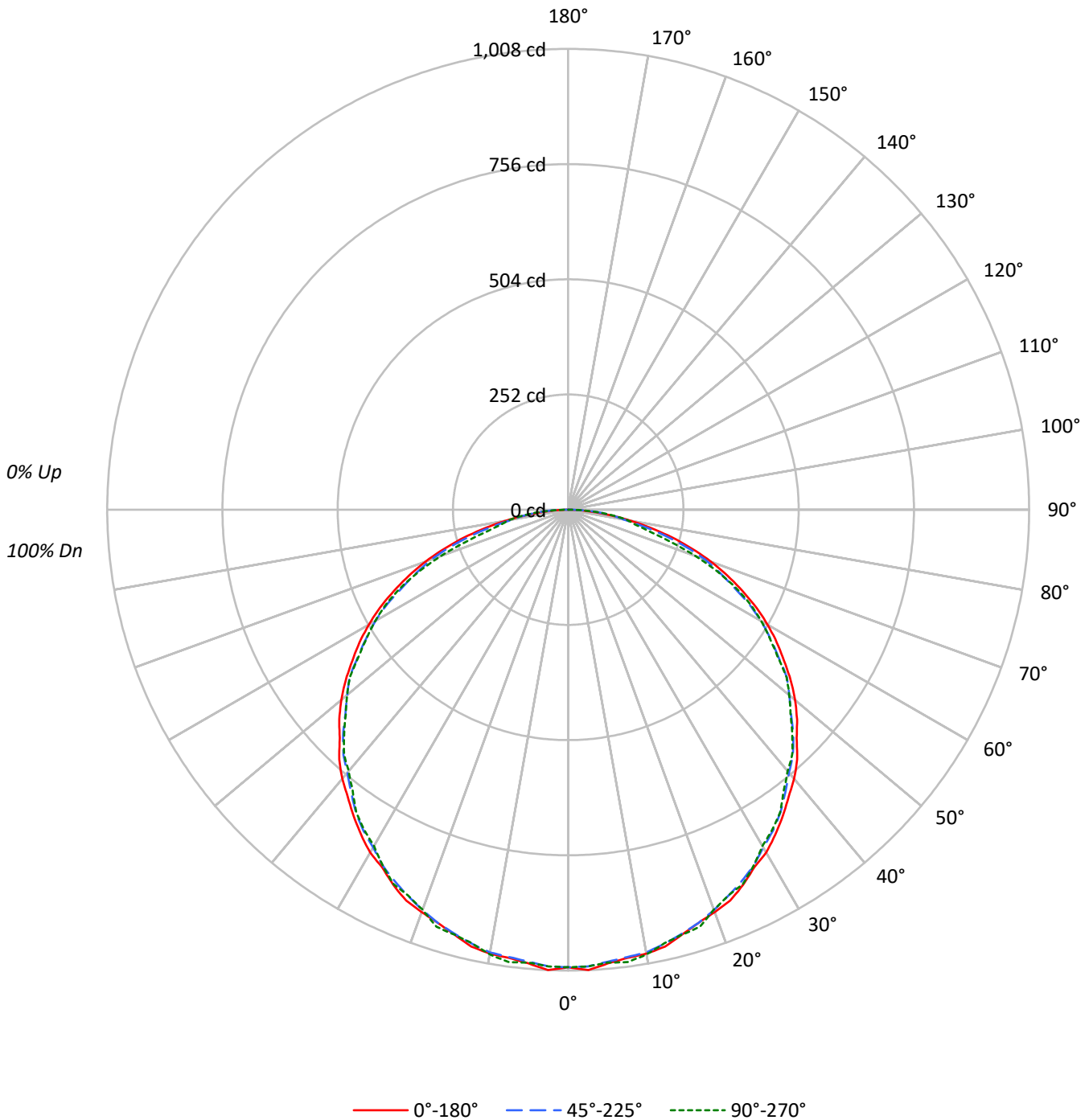
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2693	2693	2693
5°	2691	2681	2686
10°	2694	2687	2699
15°	2681	2675	2681
20°	2682	2669	2666
25°	2688	2663	2683
30°	2691	2651	2639
35°	2688	2658	2655
40°	2700	2639	2623
45°	2688	2649	2635
50°	2711	2642	2642
55°	2702	2633	2621
60°	2710	2621	2626
65°	2675	2535	2576
70°	2612	2504	2338
75°	2451	2279	1907
80°	2146	1905	2033
85°	1587	2038	2038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	3.1
10°-20°	271.9	9.0
20°-30°	414.6	13.7
30°-40°	506.3	16.7
40°-50°	538.7	17.8
50°-60°	505.8	16.7
60°-70°	401.9	13.3
70°-80°	228.5	7.5
80°-90°	68.9	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°	781.3	25.8
0°-40°	1287.6	42.5
0°-60°	2332.1	76.9
0°-90°	3031.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3031.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	996	996	992	998	994	95
15°	962	966	960	964	962	272
25°	905	904	897	898	904	417
35°	818	814	809	805	808	512
45°	706	705	696	694	692	547
55°	576	572	561	560	559	516
65°	420	414	398	404	404	416
75°	236	229	219	193	183	248
85°	51	56	66	64	66	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.7	1000.7	1000.7	1000.7	1000.7
2.5°	1008.0	1000.7	999.8	1000.7	999.8
5°	996.1	996.1	992.4	997.9	994.3
7.5°	988.8	992.4	986.9	992.4	997.9
10°	986.0	985.1	983.3	982.3	987.8
12.5°	978.7	974.1	972.3	975.0	971.3
15°	962.2	965.8	960.3	964.0	962.2
17.5°	947.5	952.1	947.5	949.3	956.7
20°	936.5	937.4	931.9	932.8	931.0
22.5°	925.5	918.1	914.5	915.4	913.6
25°	905.3	903.5	897.0	898.0	903.5
27.5°	881.4	883.3	877.8	876.9	877.8
30°	865.9	861.3	853.0	853.9	849.3
32.5°	842.9	837.4	832.8	828.2	830.1
35°	818.2	813.6	809.0	805.3	808.1
37.5°	791.6	788.8	779.6	778.7	774.1
40°	768.6	760.4	751.2	748.5	746.6
42.5°	741.1	736.5	727.4	722.8	725.5
45°	706.3	705.3	696.2	694.3	692.5
47.5°	678.7	672.3	660.4	661.3	659.5
50°	647.6	642.1	631.0	627.4	631.0
52.5°	613.6	610.9	602.6	598.9	601.7
55°	576.0	572.3	561.3	560.4	558.6
57.5°	541.2	535.7	523.7	520.1	521.9
60°	503.6	498.1	487.0	481.5	488.0
62.5°	464.1	456.8	444.9	445.8	449.4
65°	420.1	413.7	398.1	404.5	404.5
67.5°	377.0	370.6	357.7	357.7	352.2
70°	332.0	323.8	318.3	305.4	297.2
72.5°	284.3	276.1	269.7	247.6	235.7
75°	235.7	229.3	219.2	192.6	183.4
77.5°	185.3	183.4	167.9	147.7	150.4
80°	138.5	141.3	122.9	130.2	131.2
82.5°	94.5	94.5	97.2	102.7	102.7
85°	51.4	56.0	66.0	64.2	66.0
87.5°	19.3	27.5	30.3	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)