

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: P393064

Luminaire Tested: **14EN-LD2-33-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393064
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 (5700K)
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3185.4 lumens
Efficiency: N/A
Efficacy: 103.4 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

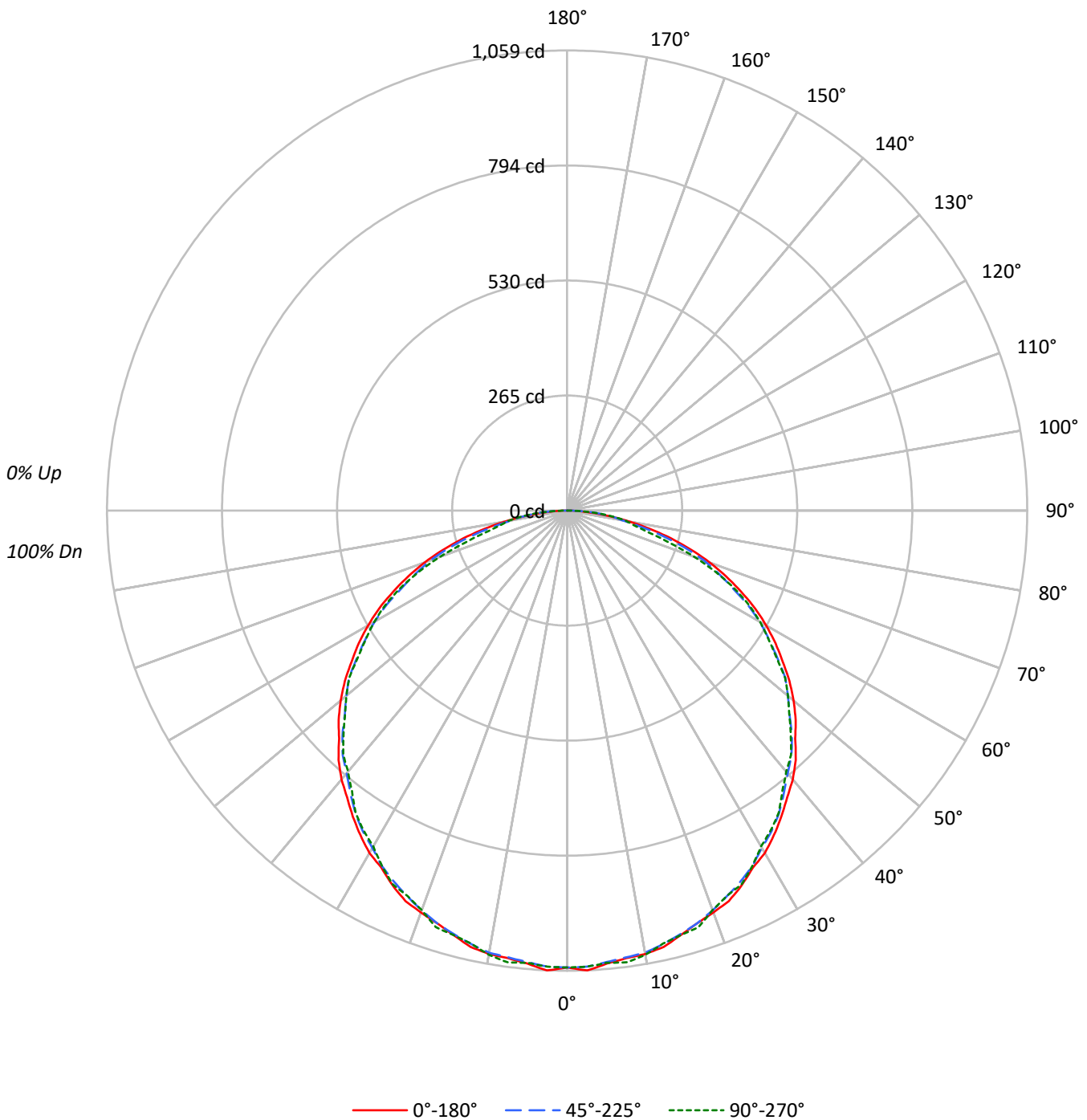
Input Watts (W): 30.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2830	2830	2830
5°	2827	2817	2822
10°	2831	2823	2836
15°	2817	2811	2817
20°	2818	2804	2802
25°	2825	2799	2819
30°	2827	2785	2773
35°	2824	2793	2789
40°	2837	2773	2756
45°	2824	2784	2769
50°	2849	2776	2776
55°	2840	2768	2754
60°	2848	2754	2760
65°	2811	2663	2706
70°	2745	2631	2457
75°	2575	2396	2005
80°	2255	2002	2135
85°	1667	2143	2143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	3.1
10°-20°	285.7	9.0
20°-30°	435.7	13.7
30°-40°	532.0	16.7
40°-50°	566.1	17.8
50°-60°	531.5	16.7
60°-70°	422.3	13.3
70°-80°	240.1	7.5
80°-90°	72.4	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°	820.9	25.8
0°-40°	1353.0	42.5
0°-60°	2450.6	76.9
0°-90°	3185.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3185.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1047	1047	1043	1049	1045	100
15°	1011	1015	1009	1013	1011	286
25°	951	949	943	944	949	438
35°	860	855	850	846	849	538
45°	742	741	732	730	728	575
55°	605	601	590	589	587	542
65°	441	435	418	425	425	437
75°	248	241	230	202	193	261
85°	54	59	69	68	69	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.5	1051.5	1051.5	1051.5	1051.5
2.5°	1059.2	1051.5	1050.6	1051.5	1050.6
5°	1046.7	1046.7	1042.9	1048.6	1044.8
7.5°	1039.0	1042.9	1037.1	1042.9	1048.6
10°	1036.1	1035.1	1033.2	1032.2	1038.0
12.5°	1028.4	1023.6	1021.6	1024.5	1020.7
15°	1011.0	1014.9	1009.1	1013.0	1011.0
17.5°	995.6	1000.4	995.6	997.6	1005.3
20°	984.1	985.0	979.2	980.2	978.3
22.5°	972.5	964.8	960.9	961.9	960.0
25°	951.3	949.4	942.6	943.6	949.4
27.5°	926.2	928.2	922.4	921.4	922.4
30°	909.8	905.0	896.4	897.3	892.5
32.5°	885.7	880.0	875.1	870.3	872.3
35°	859.7	854.9	850.1	846.2	849.1
37.5°	831.8	828.9	819.2	818.3	813.5
40°	807.7	799.0	789.4	786.5	784.5
42.5°	778.8	773.9	764.3	759.5	762.4
45°	742.1	741.2	731.5	729.6	727.7
47.5°	713.2	706.5	693.9	694.9	693.0
50°	680.5	674.7	663.1	659.3	663.1
52.5°	644.8	641.9	633.2	629.4	632.3
55°	605.3	601.4	589.9	588.9	587.0
57.5°	568.7	562.9	550.3	546.5	548.4
60°	529.1	523.4	511.8	506.0	512.8
62.5°	487.7	480.0	467.5	468.4	472.3
65°	441.4	434.7	418.3	425.0	425.0
67.5°	396.1	389.4	375.9	375.9	370.1
70°	348.9	340.2	334.4	321.0	312.3
72.5°	298.8	290.1	283.4	260.2	247.7
75°	247.7	241.0	230.4	202.4	192.8
77.5°	194.7	192.8	176.4	155.2	158.1
80°	145.5	148.4	129.2	136.9	137.8
82.5°	99.3	99.3	102.2	107.9	107.9
85°	54.0	58.8	69.4	67.5	69.4
87.5°	20.2	28.9	31.8	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)