

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: P393109

Luminaire Tested: **14EN-LD2-38-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-53)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-38-UNV-L92765-W2A-1-U (4000K)
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3120.6 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

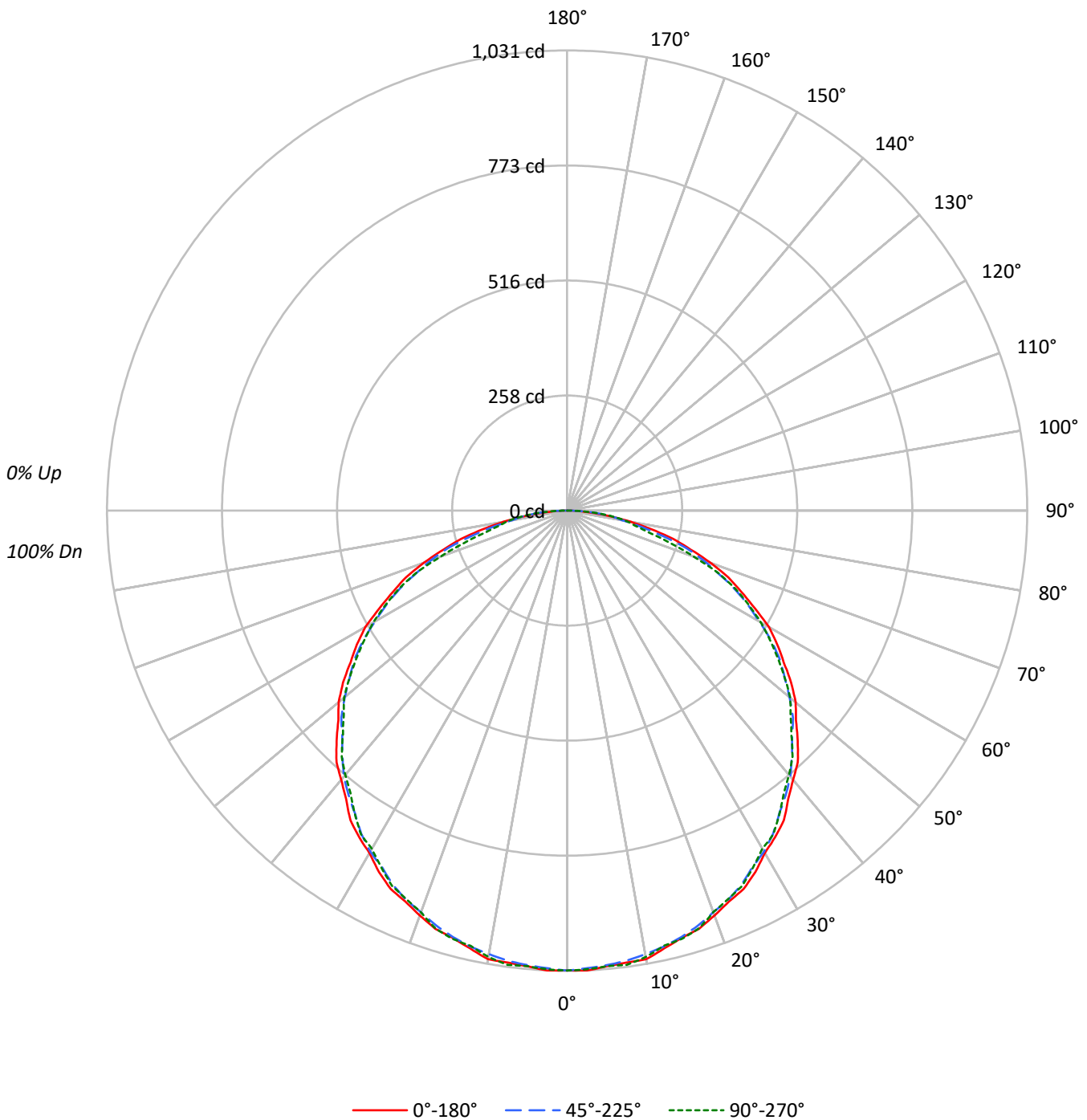
Input Watts (W): 36.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	96	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	35	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°	2773	2773	2773
5°	2768	2761	2768
10°	2789	2757	2775
15°	2760	2756	2767
20°	2764	2743	2743
25°	2777	2745	2755
30°	2752	2742	2719
35°	2782	2722	2725
40°	2766	2734	2716
45°	2779	2713	2704
50°	2797	2722	2732
55°	2778	2728	2700
60°	2809	2675	2697
65°	2739	2633	2654
70°	2681	2551	2375
75°	2554	2322	1969
80°	2230	1923	2089
85°	1633	2069	2093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	3.1
10°-20°	279.9	9.0
20°-30°	426.9	13.7
30°-40°	521.6	16.7
40°-50°	554.7	17.8
50°-60°	520.8	16.7
60°-70°	413.0	13.2
70°-80°	235.3	7.5
80°-90°	70.8	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°	804.4	25.8
0°-40°	1326.0	42.5
0°-60°	2401.5	77.0
0°-90°	3120.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3120.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1025	1030	1022	1026	1025	98
15°	991	992	989	991	993	281
25°	935	926	925	926	928	430
35°	847	837	829	830	830	527
45°	730	726	713	714	710	564
55°	592	589	581	576	576	532
65°	430	428	414	415	417	427
75°	246	236	223	200	189	256
85°	53	59	67	67	68	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.5	1030.5	1030.5	1030.5	1030.5
2.5°	1031.3	1030.5	1026.4	1031.3	1028.8
5°	1024.7	1030.5	1022.2	1025.5	1024.7
7.5°	1021.4	1019.7	1017.3	1023.0	1026.4
10°	1020.6	1012.3	1009.0	1014.8	1015.6
12.5°	1004.9	1007.3	1000.7	1002.4	999.1
15°	990.8	992.4	989.1	990.8	993.3
17.5°	982.5	977.6	975.1	978.4	981.7
20°	965.2	966.0	957.7	961.8	957.7
22.5°	947.8	948.6	943.6	943.6	942.0
25°	935.4	926.3	924.6	925.5	927.9
27.5°	913.0	909.7	899.8	903.1	901.5
30°	885.8	889.1	882.4	875.8	875.0
32.5°	867.6	861.8	858.5	856.0	860.1
35°	846.9	837.0	828.7	829.5	829.5
37.5°	813.8	813.0	803.9	799.7	797.3
40°	787.3	784.0	778.2	772.5	773.3
42.5°	765.0	754.3	745.2	743.5	747.6
45°	730.3	726.1	712.9	713.7	710.4
47.5°	695.5	694.7	686.4	679.8	679.0
50°	668.2	660.0	650.1	648.4	652.5
52.5°	632.7	628.5	614.5	614.5	614.5
55°	592.2	588.9	581.4	575.6	575.6
57.5°	558.3	551.6	542.5	538.4	538.4
60°	521.9	511.9	497.0	498.7	501.2
62.5°	473.9	468.9	455.7	454.0	459.0
65°	430.1	427.6	413.5	415.2	416.8
67.5°	391.2	380.4	364.7	370.5	367.2
70°	340.7	335.0	324.2	312.6	301.9
72.5°	290.3	287.0	281.2	253.1	243.1
75°	245.6	236.5	223.3	200.1	189.4
77.5°	192.7	190.2	171.2	153.0	154.7
80°	143.9	145.6	124.1	131.5	134.8
82.5°	94.3	97.6	101.7	106.7	104.2
85°	52.9	58.7	67.0	67.0	67.8
87.5°	19.0	28.1	29.8	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)