

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: P393110

Luminaire Tested: **14EN-LD2-38-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393110
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 (4500K)
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: 3099.7 lumens
Efficiency: N/A
Efficacy: 84.7 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

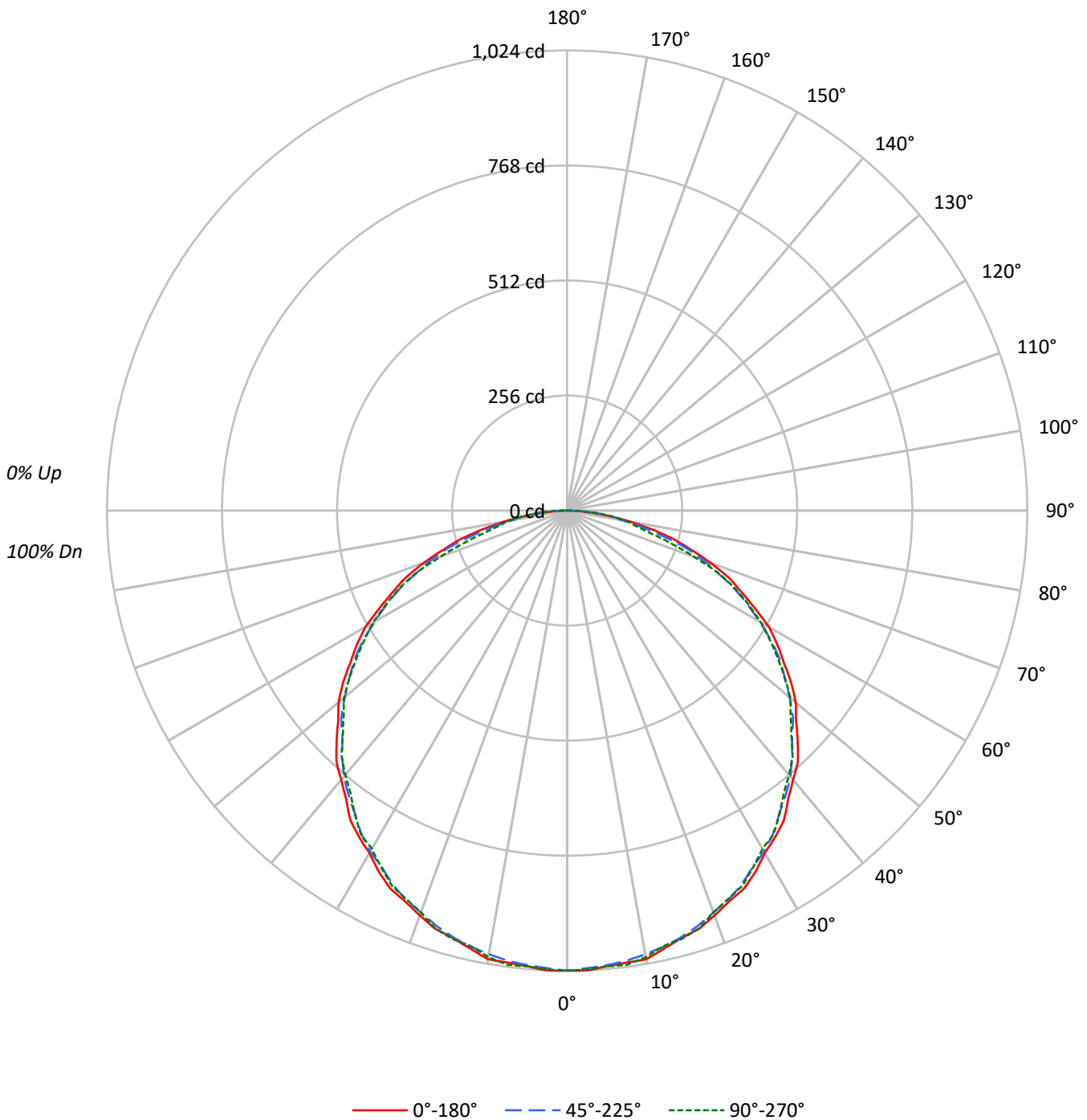
Input Watts (W): 36.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2754	2754	2754
5°	2749	2743	2749
10°	2770	2739	2757
15°	2742	2737	2749
20°	2745	2724	2724
25°	2759	2727	2737
30°	2734	2724	2701
35°	2763	2704	2707
40°	2747	2715	2698
45°	2761	2695	2686
50°	2779	2703	2714
55°	2760	2709	2683
60°	2790	2657	2679
65°	2720	2615	2636
70°	2663	2533	2359
75°	2537	2306	1956
80°	2214	1909	2075
85°	1624	2053	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.1
10°-20°	278.0	9.0
20°-30°	424.1	13.7
30°-40°	518.1	16.7
40°-50°	551.0	17.8
50°-60°	517.3	16.7
60°-70°	410.3	13.2
70°-80°	233.7	7.5
80°-90°	70.3	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°	799.0	25.8
0°-40°	1317.1	42.5
0°-60°	2385.4	77.0
0°-90°	3099.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3099.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1018	1024	1015	1019	1018	97
15°	984	986	982	984	987	279
25°	929	920	918	919	922	427
35°	841	831	823	824	824	524
45°	725	721	708	709	706	560
55°	588	585	578	572	572	529
65°	427	425	411	412	414	424
75°	244	235	222	199	188	254
85°	53	58	66	66	67	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.6	1023.6	1023.6	1023.6	1023.6
2.5°	1024.4	1023.6	1019.5	1024.4	1021.9
5°	1017.8	1023.6	1015.4	1018.6	1017.8
7.5°	1014.5	1012.9	1010.4	1016.2	1019.5
10°	1013.7	1005.5	1002.2	1008.0	1008.8
12.5°	998.1	1000.6	994.0	995.6	992.4
15°	984.1	985.8	982.5	984.1	986.6
17.5°	975.9	971.0	968.5	971.8	975.1
20°	958.7	959.5	951.3	955.4	951.3
22.5°	941.4	942.3	937.3	937.3	935.7
25°	929.1	920.1	918.4	919.2	921.7
27.5°	906.9	903.6	893.8	897.1	895.4
30°	879.8	883.1	876.5	870.0	869.1
32.5°	861.7	856.0	852.7	850.2	854.4
35°	841.2	831.3	823.1	824.0	824.0
37.5°	808.3	807.5	798.5	794.4	791.9
40°	782.1	778.8	773.0	767.3	768.1
42.5°	759.9	749.2	740.2	738.5	742.6
45°	725.4	721.3	708.1	708.9	705.7
47.5°	690.9	690.1	681.8	675.3	674.4
50°	663.8	655.5	645.7	644.0	648.2
52.5°	628.4	624.3	610.4	610.4	610.4
55°	588.2	584.9	577.5	571.8	571.8
57.5°	554.5	547.9	538.9	534.8	534.8
60°	518.4	508.5	493.7	495.4	497.8
62.5°	470.7	465.8	452.6	451.0	455.9
65°	427.2	424.7	410.7	412.4	414.0
67.5°	388.6	377.9	362.3	368.0	364.7
70°	338.5	332.7	322.0	310.5	299.8
72.5°	288.3	285.1	279.3	251.4	241.5
75°	244.0	234.9	221.8	198.8	188.1
77.5°	191.4	188.9	170.0	152.0	153.6
80°	142.9	144.6	123.2	130.6	133.9
82.5°	93.6	96.9	101.0	106.0	103.5
85°	52.6	58.3	66.5	66.5	67.4
87.5°	18.9	27.9	29.6	29.6	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)