

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: P393108

Luminaire Tested: **14EN-LD2-38-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393108
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 (3500K)
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: 2988.2 lumens
Efficiency: N/A
Efficacy: 81.9 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

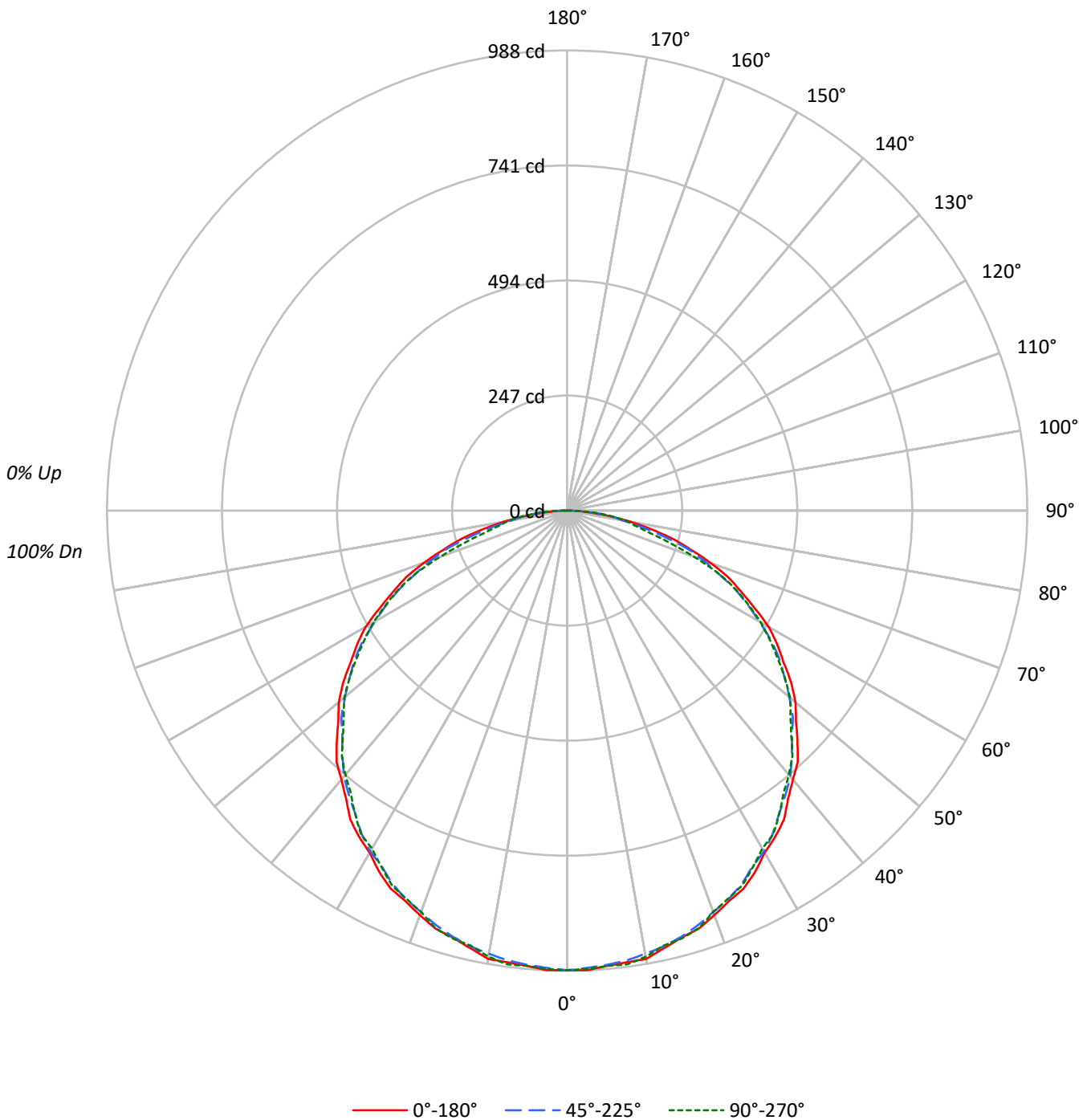
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2655	2655	2655
5°	2650	2644	2650
10°	2670	2640	2657
15°	2643	2639	2650
20°	2647	2626	2626
25°	2659	2629	2638
30°	2636	2626	2604
35°	2664	2607	2609
40°	2648	2618	2601
45°	2661	2598	2589
50°	2679	2606	2616
55°	2660	2612	2586
60°	2689	2562	2583
65°	2622	2521	2541
70°	2567	2442	2275
75°	2445	2223	1886
80°	2135	1841	2001
85°	1565	1979	2004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	3.1
10°-20°	268.0	9.0
20°-30°	408.8	13.7
30°-40°	499.4	16.7
40°-50°	531.2	17.8
50°-60°	498.7	16.7
60°-70°	395.5	13.2
70°-80°	225.3	7.5
80°-90°	67.8	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°	770.3	25.8
0°-40°	1269.7	42.5
0°-60°	2299.6	77.0
0°-90°	2988.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	987	987	987	987	987	
5°	981	987	979	982	981	94
15°	949	950	947	949	951	269
25°	896	887	885	886	889	411
35°	811	802	794	794	794	505
45°	699	695	683	684	680	540
55°	567	564	557	551	551	510
65°	412	409	396	398	399	409
75°	235	226	214	192	181	245
85°	51	56	64	64	65	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.8	986.8	986.8	986.8	986.8
2.5°	987.6	986.8	982.8	987.6	985.2
5°	981.2	986.8	978.9	982.0	981.2
7.5°	978.1	976.5	974.1	979.6	982.8
10°	977.3	969.4	966.2	971.7	972.5
12.5°	962.2	964.6	958.3	959.8	956.7
15°	948.8	950.3	947.2	948.8	951.1
17.5°	940.8	936.1	933.7	936.9	940.0
20°	924.2	925.0	917.1	921.0	917.1
22.5°	907.6	908.4	903.6	903.6	902.0
25°	895.7	887.0	885.4	886.2	888.6
27.5°	874.3	871.1	861.6	864.8	863.2
30°	848.2	851.3	845.0	838.7	837.9
32.5°	830.8	825.2	822.0	819.7	823.6
35°	811.0	801.5	793.5	794.3	794.3
37.5°	779.3	778.5	769.8	765.8	763.4
40°	753.9	750.8	745.2	739.7	740.5
42.5°	732.6	722.3	713.6	712.0	715.9
45°	699.3	695.3	682.7	683.5	680.3
47.5°	666.0	665.2	657.3	651.0	650.2
50°	639.9	632.0	622.5	620.9	624.9
52.5°	605.8	601.9	588.4	588.4	588.4
55°	567.0	563.9	556.7	551.2	551.2
57.5°	534.6	528.2	519.5	515.6	515.6
60°	499.7	490.2	476.0	477.5	479.9
62.5°	453.8	449.0	436.4	434.8	439.5
65°	411.8	409.4	396.0	397.6	399.1
67.5°	374.6	364.3	349.3	354.8	351.6
70°	326.3	320.7	310.4	299.4	289.1
72.5°	278.0	274.8	269.3	242.3	232.8
75°	235.2	226.5	213.8	191.7	181.4
77.5°	184.5	182.1	163.9	146.5	148.1
80°	137.8	139.4	118.8	125.9	129.1
82.5°	90.3	93.5	97.4	102.2	99.8
85°	50.7	56.2	64.1	64.1	64.9
87.5°	18.2	26.9	28.5	28.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)