

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: P393138

Luminaire Tested: **14EN-LD2-43-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-54)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-43-UNV-L92765-W2A-1-U (2700K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3191.7 lumens
Efficiency: N/A
Efficacy: 77.3 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

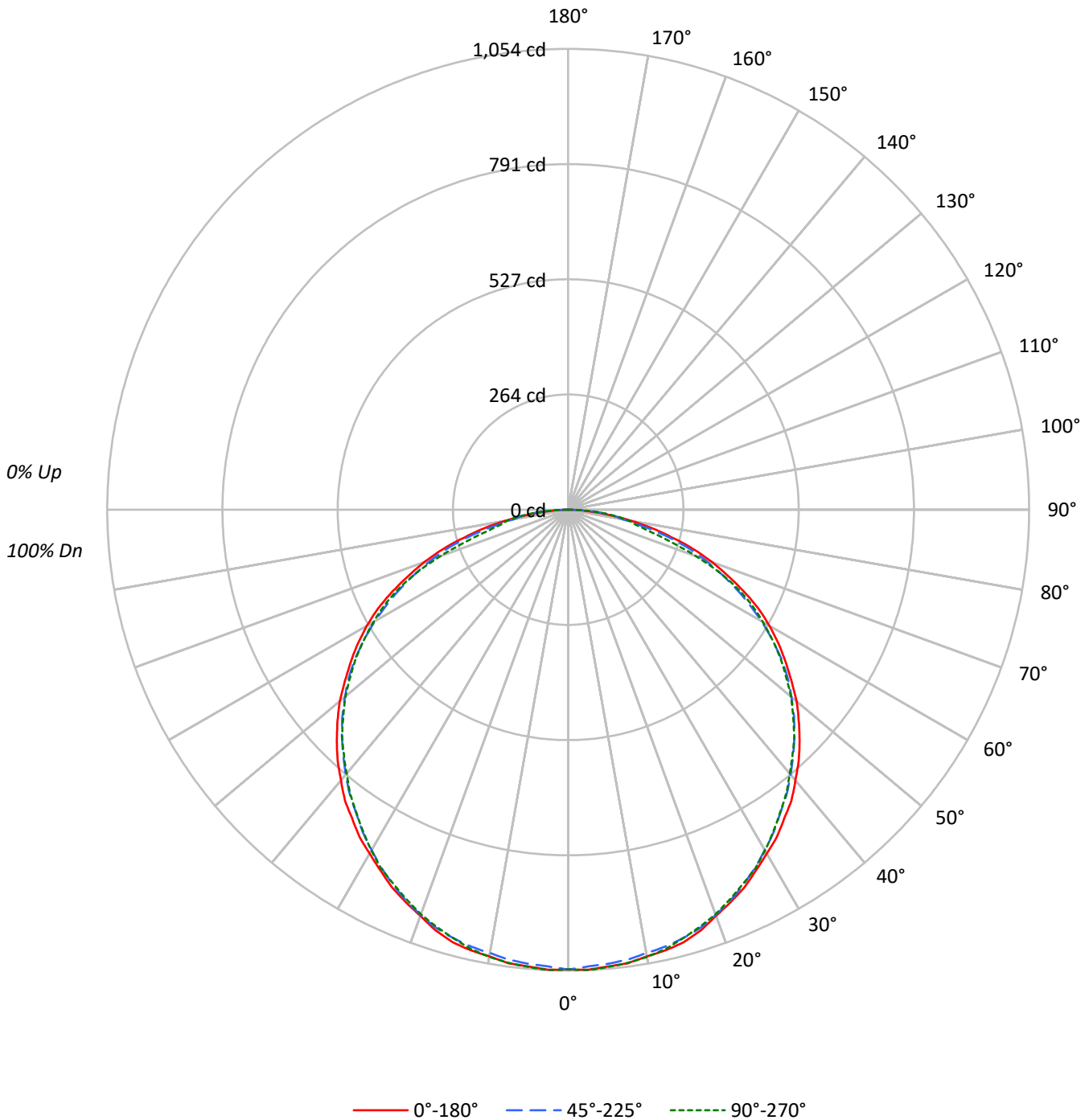
Input Watts (W): 41.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2830	2830	2830
5°	2832	2816	2836
10°	2834	2814	2838
15°	2852	2827	2827
20°	2830	2824	2820
25°	2830	2810	2806
30°	2822	2794	2796
35°	2830	2779	2776
40°	2839	2779	2768
45°	2848	2785	2782
50°	2853	2790	2784
55°	2845	2792	2778
60°	2860	2746	2767
65°	2824	2676	2728
70°	2751	2598	2451
75°	2551	2396	1997
80°	2256	1954	2151
85°	1646	2130	2177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	3.1
10°-20°	286.9	9.0
20°-30°	436.6	13.7
30°-40°	532.9	16.7
40°-50°	567.8	17.8
50°-60°	532.4	16.7
60°-70°	422.9	13.2
70°-80°	240.4	7.5
80°-90°	72.2	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°	823.2	25.8
0°-40°	1356.1	42.5
0°-60°	2456.3	77.0
0°-90°	3191.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3191.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1048	1046	1042	1051	1050	100
15°	1024	1021	1015	1013	1015	288
25°	953	949	946	943	945	439
35°	862	854	846	848	845	540
45°	748	744	732	730	731	577
55°	606	601	595	588	592	543
65°	444	436	420	426	428	438
75°	245	243	230	205	192	262
85°	53	58	69	69	70	66
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°	1053.0	1050.0	1045.5	1055.2	1053.7
5°	1048.5	1046.2	1042.5	1050.7	1050.0
7.5°	1046.2	1041.7	1037.9	1047.0	1045.5
10°	1037.2	1037.9	1029.7	1038.7	1038.7
12.5°	1031.9	1030.4	1023.7	1026.7	1028.9
15°	1023.7	1020.7	1014.7	1013.2	1014.7
17.5°	1008.7	1005.7	1003.4	998.2	1000.4
20°	988.4	989.9	986.2	981.7	984.7
22.5°	971.2	969.7	968.2	963.6	965.1
25°	953.1	948.6	946.4	943.4	944.9
27.5°	929.9	926.9	923.9	922.4	925.4
30°	908.1	903.6	899.1	897.6	899.9
32.5°	887.8	879.6	874.3	875.1	872.8
35°	861.6	854.1	845.8	848.1	845.1
37.5°	838.3	829.3	820.3	822.6	818.8
40°	808.3	803.0	791.0	792.5	788.0
42.5°	779.8	776.8	761.0	761.8	759.5
45°	748.3	744.5	731.7	729.5	731.0
47.5°	715.2	711.5	700.2	695.0	697.2
50°	681.5	677.0	666.4	661.9	664.9
52.5°	643.2	640.9	632.7	625.9	628.2
55°	606.4	601.2	595.2	587.6	592.1
57.5°	570.4	564.4	553.1	549.4	553.9
60°	531.4	521.6	510.3	507.3	514.1
62.5°	490.8	479.6	465.3	466.1	474.3
65°	443.5	436.0	420.3	425.5	428.5
67.5°	395.5	389.5	374.5	382.0	373.8
70°	349.7	342.2	330.2	320.5	311.5
72.5°	301.0	291.9	284.4	258.9	248.4
75°	245.4	243.2	230.4	204.9	192.1
77.5°	198.1	192.9	175.6	156.1	157.6
80°	145.6	149.4	126.1	135.1	138.8
82.5°	96.1	98.3	104.3	108.8	108.1
85°	53.3	58.5	69.0	69.0	70.5
87.5°	20.3	26.3	30.0	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)