

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: P393140

Luminaire Tested: **14EN-LD2-43-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393140
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 (3500K)
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: 3368.0 lumens
Efficiency: N/A
Efficacy: 81.2 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

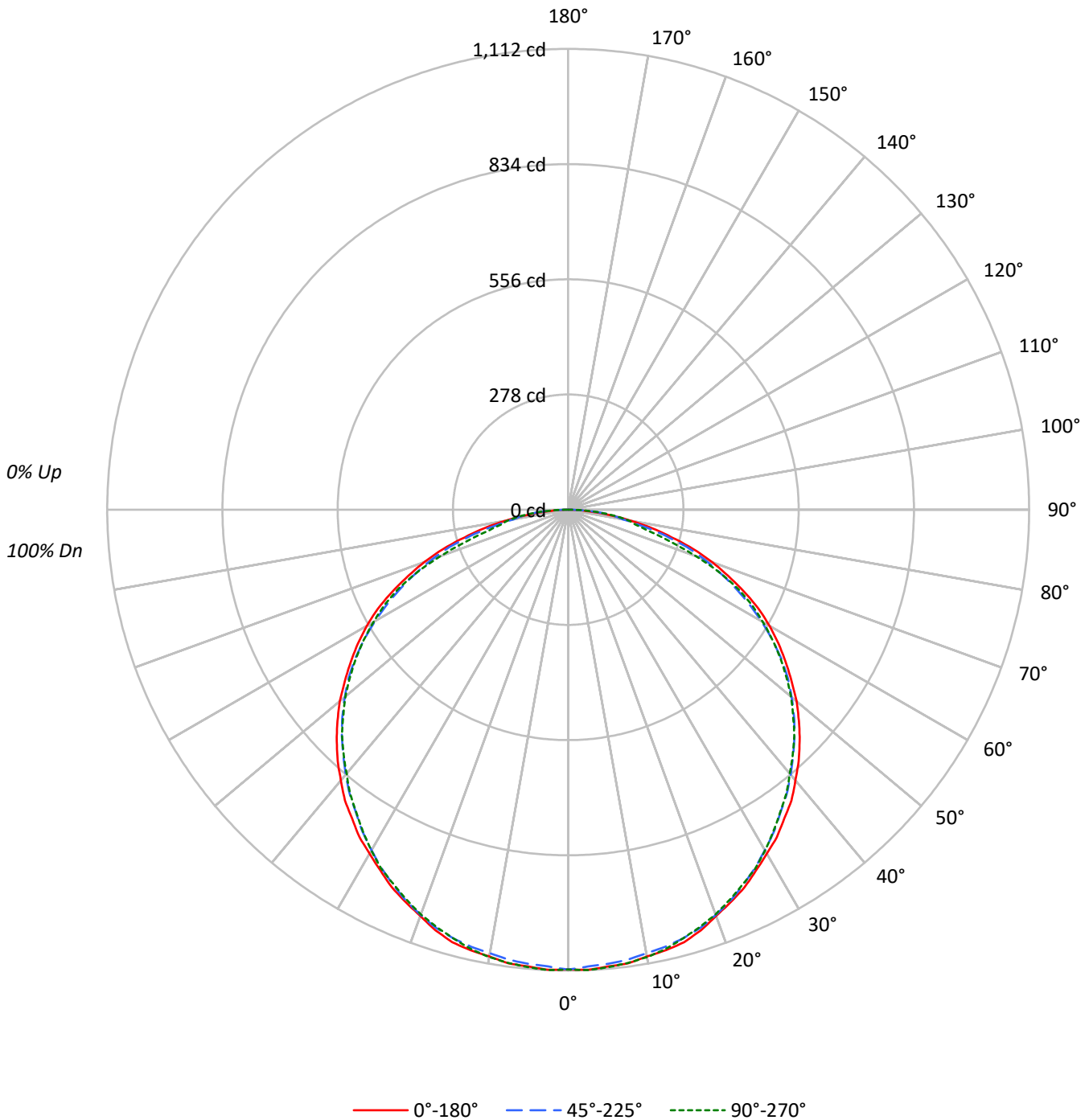
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393140

CATALOG NUMBER: 14EN-LD2-43-UNV-L92765-W2A-1-U (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P393140

CATALOG NUMBER: 14EN-LD2-43-UNV-L92765-W2A-1-U (3500K)

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°	2986	2986	2986
5°	2989	2971	2993
10°	2991	2969	2995
15°	3009	2983	2983
20°	2987	2980	2975
25°	2986	2965	2961
30°	2978	2948	2951
35°	2987	2932	2929
40°	2996	2932	2921
45°	3005	2939	2936
50°	3010	2944	2938
55°	3002	2946	2932
60°	3018	2898	2920
65°	2980	2824	2879
70°	2904	2742	2586
75°	2693	2528	2108
80°	2380	2061	2270
85°	1735	2251	2297



TEST NUMBER: P393140

CATALOG NUMBER: 14EN-LD2-43-UNV-L92765-W2A-1-U (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.1
10°-20°	302.8	9.0
20°-30°	460.7	13.7
30°-40°	562.3	16.7
40°-50°	599.2	17.8
50°-60°	561.8	16.7
60°-70°	446.2	13.2
70°-80°	253.7	7.5
80°-90°	76.2	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°	868.6	25.8
0°-40°	1431.0	42.5
0°-60°	2591.9	77.0
0°-90°	3368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1106	1104	1100	1109	1108	105
15°	1080	1077	1071	1069	1071	304
25°	1006	1001	999	996	997	463
35°	909	901	892	895	892	570
45°	790	786	772	770	771	609
55°	640	634	628	620	625	573
65°	468	460	444	449	452	462
75°	259	257	243	216	203	276
85°	56	62	73	73	74	70
90°	0	0	0	0	0	



TEST NUMBER: P393140

CATALOG NUMBER: 14EN-LD2-43-UNV-L92765-W2A-1-U (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1109.5	1109.5	1109.5	1109.5	1109.5
2.5°	1111.1	1107.9	1103.2	1113.5	1111.9
5°	1106.4	1104.0	1100.0	1108.7	1107.9
7.5°	1104.0	1099.2	1095.3	1104.8	1103.2
10°	1094.5	1095.3	1086.6	1096.1	1096.1
12.5°	1088.9	1087.4	1080.2	1083.4	1085.8
15°	1080.2	1077.1	1070.7	1069.1	1070.7
17.5°	1064.4	1061.2	1058.8	1053.3	1055.7
20°	1043.0	1044.6	1040.6	1035.9	1039.0
22.5°	1024.8	1023.2	1021.6	1016.9	1018.5
25°	1005.8	1001.0	998.7	995.5	997.1
27.5°	981.2	978.1	974.9	973.3	976.5
30°	958.3	953.5	948.8	947.2	949.6
32.5°	936.9	928.2	922.6	923.4	921.0
35°	909.2	901.2	892.5	894.9	891.7
37.5°	884.6	875.1	865.6	868.0	864.0
40°	852.9	847.4	834.7	836.3	831.6
42.5°	822.8	819.7	803.0	803.8	801.5
45°	789.6	785.6	772.2	769.8	771.4
47.5°	754.7	750.8	738.9	733.3	735.7
50°	719.1	714.3	703.3	698.5	701.7
52.5°	678.7	676.3	667.6	660.5	662.9
55°	639.9	634.4	628.0	620.1	624.9
57.5°	601.9	595.5	583.7	579.7	584.5
60°	560.7	550.4	538.5	535.4	542.5
62.5°	517.9	506.1	491.0	491.8	500.5
65°	468.0	460.1	443.5	449.0	452.2
67.5°	417.4	411.0	395.2	403.1	394.4
70°	369.1	361.1	348.5	338.2	328.7
72.5°	317.6	308.1	300.2	273.2	262.1
75°	259.0	256.6	243.1	216.2	202.7
77.5°	209.1	203.5	185.3	164.7	166.3
80°	153.6	157.6	133.0	142.6	146.5
82.5°	101.4	103.7	110.1	114.8	114.0
85°	56.2	61.8	72.9	72.9	74.4
87.5°	21.4	27.7	31.7	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)