

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: P393144

Luminaire Tested: **14EN-LD2-43-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393144
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 (5700K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3639.8 lumens
Efficiency: N/A
Efficacy: 87.5 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

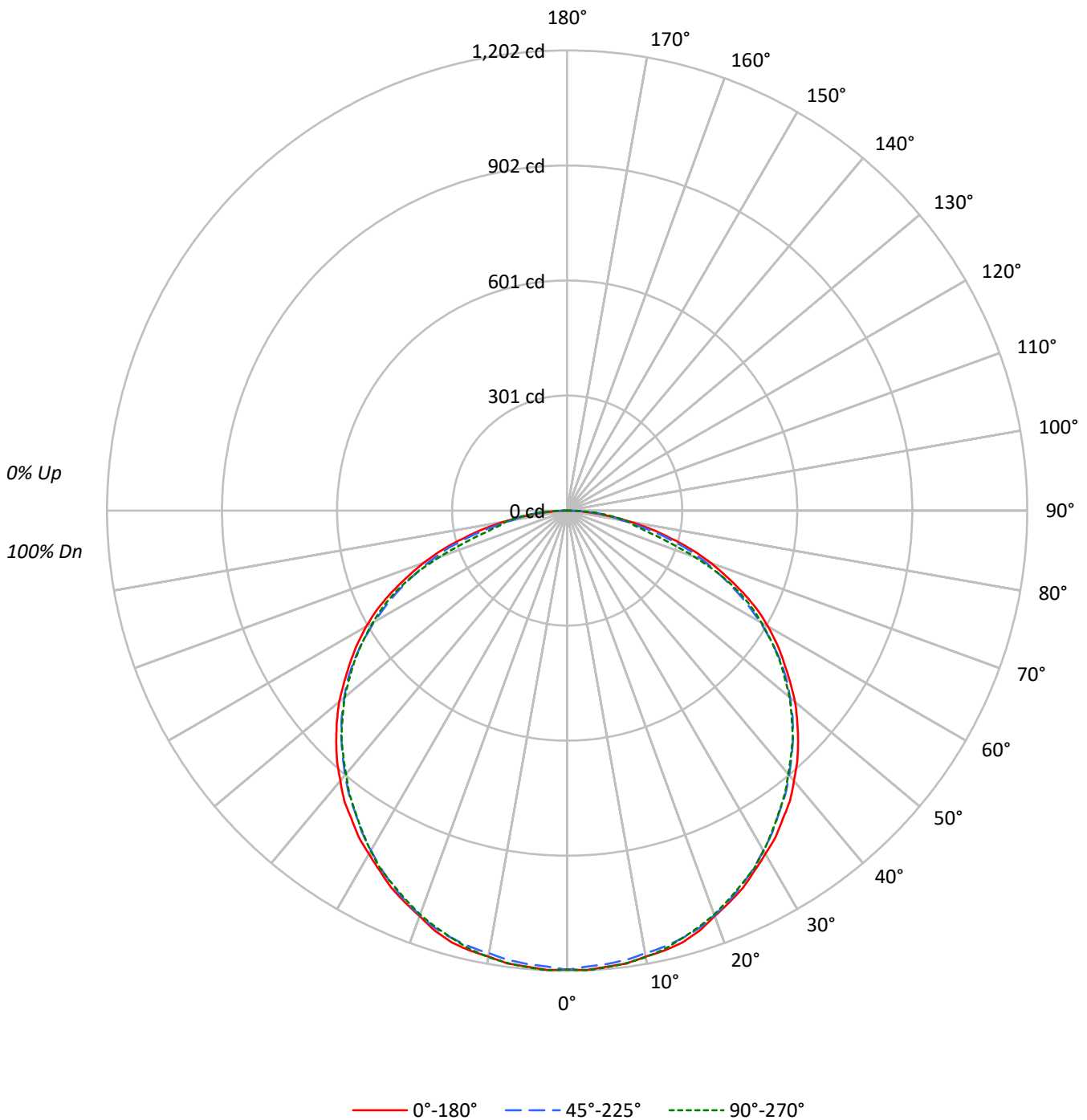
Input Watts (W): 41.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3227	3227	3227
5°	3230	3211	3234
10°	3232	3209	3237
15°	3252	3224	3224
20°	3228	3220	3216
25°	3227	3205	3199
30°	3218	3186	3189
35°	3228	3169	3166
40°	3238	3169	3157
45°	3247	3176	3172
50°	3253	3182	3175
55°	3244	3184	3168
60°	3261	3132	3155
65°	3221	3052	3112
70°	3138	2963	2795
75°	2910	2732	2278
80°	2572	2228	2453
85°	1877	2430	2485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.1
10°-20°	327.2	9.0
20°-30°	497.9	13.7
30°-40°	607.7	16.7
40°-50°	647.5	17.8
50°-60°	607.1	16.7
60°-70°	482.2	13.2
70°-80°	274.2	7.5
80°-90°	82.3	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°	938.7	25.8
0°-40°	1546.5	42.5
0°-60°	2801.1	77.0
0°-90°	3639.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3639.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1196	1193	1189	1198	1197	114
15°	1167	1164	1157	1155	1157	329
25°	1087	1082	1079	1076	1078	501
35°	982	974	965	967	964	616
45°	853	849	834	832	834	658
55°	692	686	679	670	675	619
65°	506	497	479	485	489	500
75°	280	277	263	234	219	298
85°	61	67	79	79	80	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.1	1199.1	1199.1	1199.1	1199.1
2.5°	1200.8	1197.4	1192.2	1203.4	1201.6
5°	1195.6	1193.1	1188.8	1198.2	1197.4
7.5°	1193.1	1187.9	1183.7	1193.9	1192.2
10°	1182.8	1183.7	1174.3	1184.5	1184.5
12.5°	1176.8	1175.1	1167.4	1170.8	1173.4
15°	1167.4	1164.0	1157.1	1155.4	1157.1
17.5°	1150.3	1146.9	1144.3	1138.3	1140.9
20°	1127.2	1128.9	1124.6	1119.5	1122.9
22.5°	1107.5	1105.8	1104.1	1098.9	1100.6
25°	1087.0	1081.8	1079.3	1075.8	1077.5
27.5°	1060.4	1057.0	1053.6	1051.9	1055.3
30°	1035.6	1030.5	1025.3	1023.6	1026.2
32.5°	1012.5	1003.1	997.1	997.9	995.4
35°	982.5	974.0	964.6	967.1	963.7
37.5°	956.0	945.7	935.5	938.0	933.8
40°	921.8	915.8	902.1	903.8	898.7
42.5°	889.2	885.8	867.9	868.7	866.1
45°	853.3	849.0	834.5	831.9	833.6
47.5°	815.6	811.4	798.5	792.5	795.1
50°	777.1	772.0	760.0	754.9	758.3
52.5°	733.5	730.9	721.5	713.8	716.4
55°	691.5	685.6	678.7	670.1	675.3
57.5°	650.5	643.6	630.8	626.5	631.6
60°	606.0	594.8	582.0	578.6	586.3
62.5°	559.7	546.9	530.6	531.5	540.9
65°	505.8	497.3	479.3	485.3	488.7
67.5°	451.0	444.2	427.1	435.6	426.2
70°	398.8	390.3	376.6	365.5	355.2
72.5°	343.2	332.9	324.4	295.3	283.3
75°	279.9	277.3	262.8	233.7	219.1
77.5°	225.9	220.0	200.3	178.0	179.7
80°	166.0	170.3	143.8	154.1	158.3
82.5°	109.6	112.1	119.0	124.1	123.2
85°	60.8	66.8	78.7	78.7	80.5
87.5°	23.1	30.0	34.2	35.1	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)