

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: P393149

Luminaire Tested: **14EN-LD2-43-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393149
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-L93050-W2A-1-U (4000K)
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: 3714.9 lumens
Efficiency: N/A
Efficacy: 89.9 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

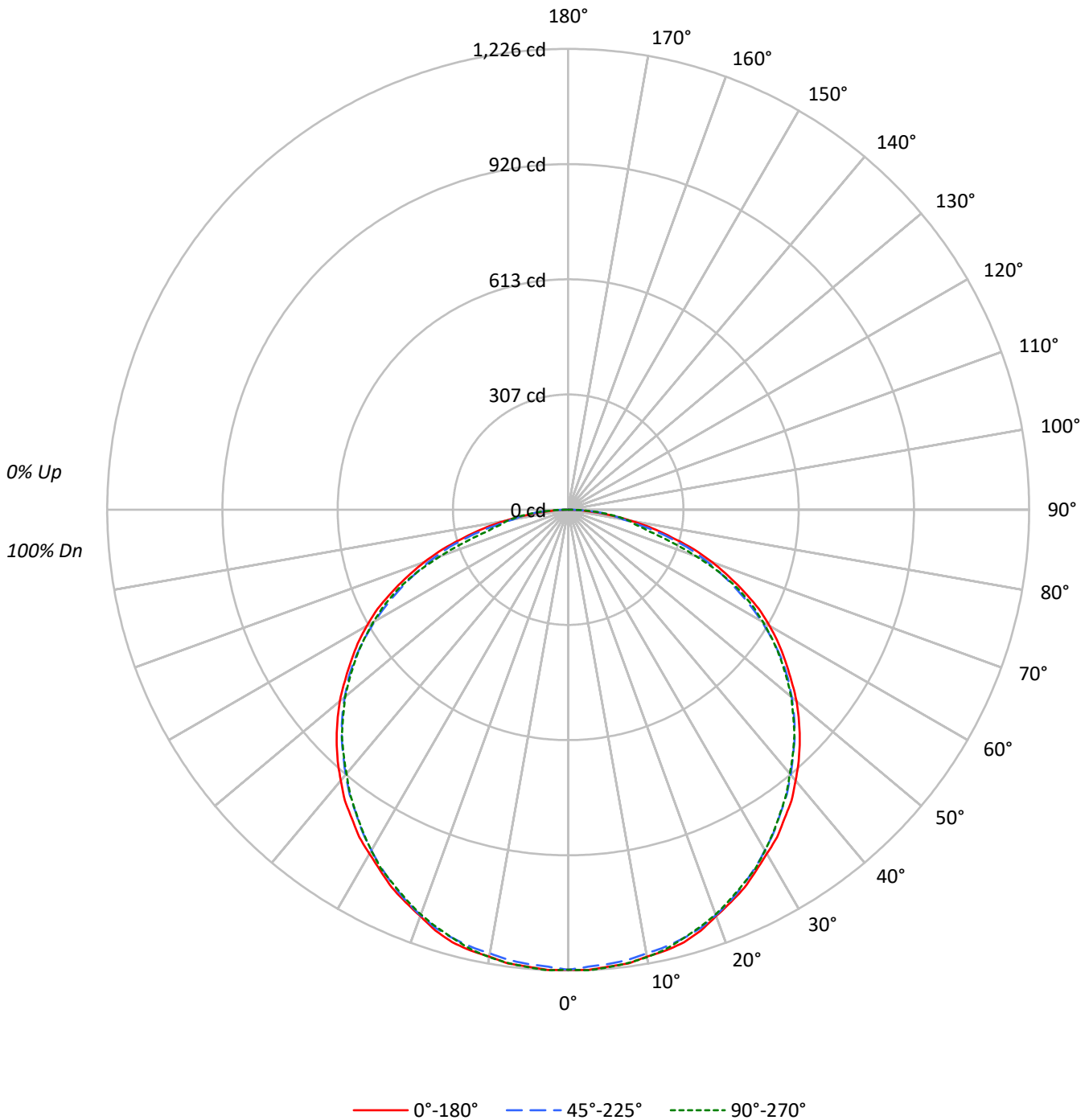
Input Watts (W): 41.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3293	3293	3293
5°	3296	3277	3301
10°	3299	3275	3303
15°	3319	3290	3290
20°	3294	3287	3282
25°	3294	3271	3265
30°	3284	3252	3254
35°	3294	3234	3231
40°	3305	3234	3222
45°	3314	3241	3238
50°	3320	3247	3240
55°	3311	3250	3233
60°	3328	3197	3221
65°	3287	3115	3176
70°	3203	3024	2852
75°	2969	2789	2325
80°	2627	2273	2504
85°	1914	2482	2535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.1
10°-20°	333.9	9.0
20°-30°	508.2	13.7
30°-40°	620.3	16.7
40°-50°	660.9	17.8
50°-60°	619.6	16.7
60°-70°	492.2	13.2
70°-80°	279.8	7.5
80°-90°	84.0	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°	958.1	25.8
0°-40°	1578.3	42.5
0°-60°	2858.9	77.0
0°-90°	3714.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3714.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1220	1218	1213	1223	1222	116
15°	1192	1188	1181	1179	1181	335
25°	1109	1104	1102	1098	1100	511
35°	1003	994	984	987	984	628
45°	871	866	852	849	851	672
55°	706	700	693	684	689	632
65°	516	508	489	495	499	510
75°	286	283	268	238	224	304
85°	62	68	80	80	82	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223.8	1223.8	1223.8	1223.8	1223.8
2.5°	1225.5	1222.0	1216.8	1228.2	1226.4
5°	1220.3	1217.7	1213.3	1222.9	1222.0
7.5°	1217.7	1212.4	1208.1	1218.5	1216.8
10°	1207.2	1208.1	1198.5	1208.9	1208.9
12.5°	1201.1	1199.3	1191.5	1195.0	1197.6
15°	1191.5	1188.0	1181.0	1179.2	1181.0
17.5°	1174.0	1170.5	1167.9	1161.8	1164.4
20°	1150.4	1152.2	1147.8	1142.5	1146.0
22.5°	1130.3	1128.6	1126.8	1121.6	1123.3
25°	1109.4	1104.1	1101.5	1098.0	1099.7
27.5°	1082.3	1078.8	1075.3	1073.5	1077.0
30°	1056.9	1051.7	1046.5	1044.7	1047.3
32.5°	1033.4	1023.8	1017.6	1018.5	1015.9
35°	1002.8	994.1	984.4	987.1	983.6
37.5°	975.7	965.2	954.7	957.4	953.0
40°	940.8	934.7	920.7	922.4	917.2
42.5°	907.6	904.1	885.7	886.6	884.0
45°	870.9	866.5	851.7	849.0	850.8
47.5°	832.5	828.1	815.0	808.9	811.5
50°	793.1	787.9	775.7	770.4	773.9
52.5°	748.6	746.0	736.4	728.5	731.1
55°	705.8	699.7	692.7	684.0	689.2
57.5°	663.9	656.9	643.8	639.4	644.6
60°	618.4	607.1	594.0	590.5	598.4
62.5°	571.3	558.2	541.6	542.4	552.1
65°	516.2	507.5	489.2	495.3	498.8
67.5°	460.3	453.4	435.9	444.6	435.0
70°	407.1	398.3	384.3	373.0	362.5
72.5°	350.3	339.8	331.1	301.4	289.1
75°	285.6	283.0	268.2	238.5	223.6
77.5°	230.6	224.5	204.4	181.7	183.4
80°	169.5	173.8	146.7	157.2	161.6
82.5°	111.8	114.4	121.4	126.7	125.8
85°	62.0	68.1	80.4	80.4	82.1
87.5°	23.6	30.6	34.9	35.8	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)