

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: P393148

Luminaire Tested: **14EN-LD2-43-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393148
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 (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: 3576.3 lumens
Efficiency: N/A
Efficacy: 86.0 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

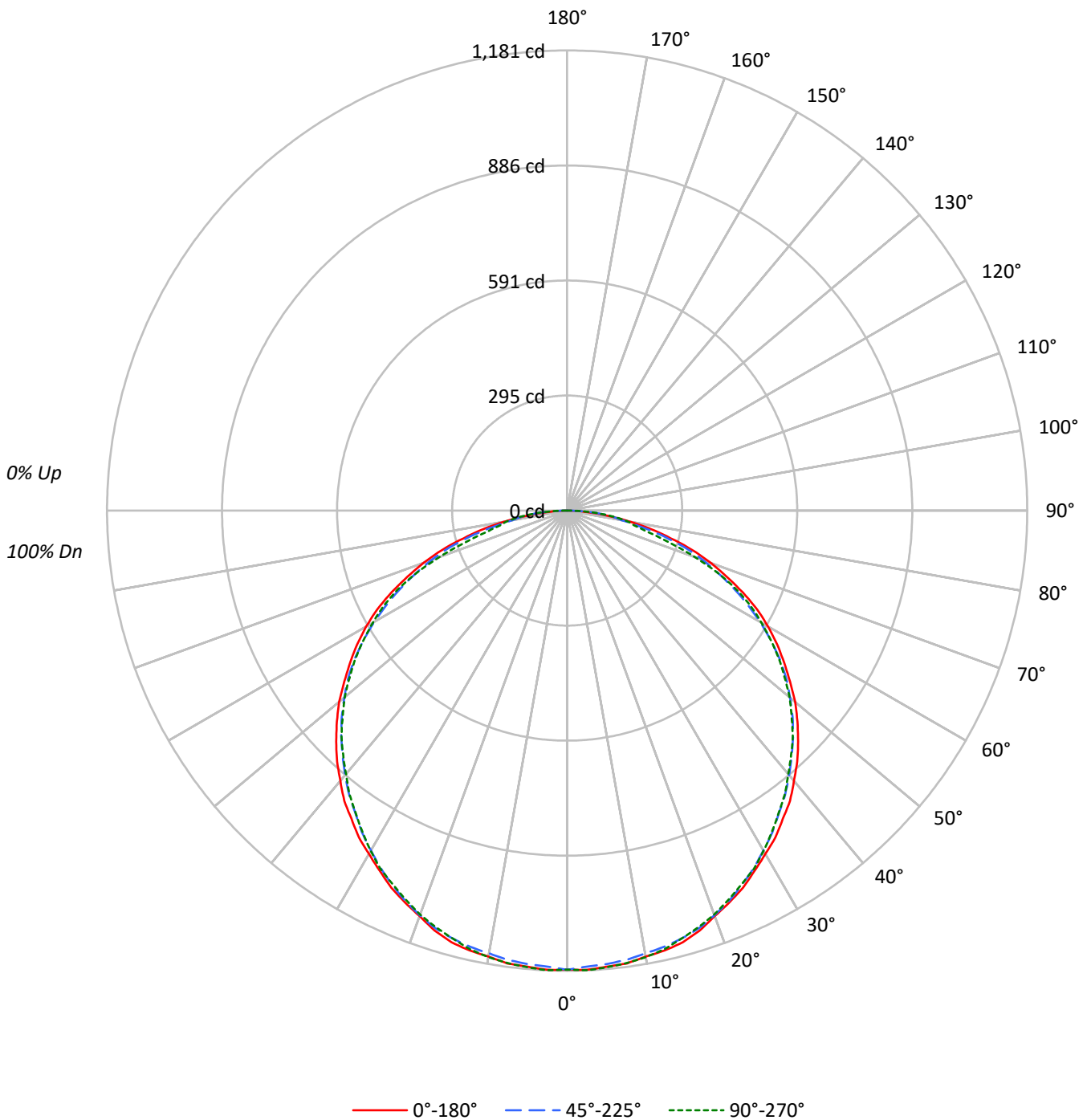
Input Watts (W): 41.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3170	3170	3170
5°	3173	3155	3178
10°	3176	3153	3180
15°	3195	3167	3167
20°	3172	3164	3159
25°	3171	3149	3143
30°	3162	3130	3133
35°	3171	3113	3111
40°	3182	3113	3102
45°	3191	3120	3117
50°	3197	3126	3119
55°	3188	3129	3113
60°	3204	3077	3100
65°	3165	2998	3058
70°	3083	2911	2746
75°	2859	2685	2239
80°	2528	2190	2411
85°	1843	2390	2439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.1
10°-20°	321.5	9.0
20°-30°	489.2	13.7
30°-40°	597.1	16.7
40°-50°	636.2	17.8
50°-60°	596.5	16.7
60°-70°	473.8	13.2
70°-80°	269.4	7.5
80°-90°	80.9	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°	922.3	25.8
0°-40°	1519.5	42.5
0°-60°	2752.2	77.0
0°-90°	3576.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3576.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1175	1172	1168	1177	1176	112
15°	1147	1144	1137	1135	1137	323
25°	1068	1063	1060	1057	1059	492
35°	965	957	948	950	947	605
45°	838	834	820	817	819	647
55°	680	674	667	658	664	608
65°	497	489	471	477	480	491
75°	275	272	258	230	215	293
85°	60	66	77	77	79	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.1	1178.1	1178.1	1178.1	1178.1
2.5°	1179.8	1176.5	1171.4	1182.3	1180.7
5°	1174.8	1172.3	1168.0	1177.3	1176.5
7.5°	1172.3	1167.2	1163.0	1173.1	1171.4
10°	1162.2	1163.0	1153.8	1163.8	1163.8
12.5°	1156.3	1154.6	1147.0	1150.4	1152.9
15°	1147.0	1143.7	1136.9	1135.3	1136.9
17.5°	1130.2	1126.8	1124.3	1118.4	1121.0
20°	1107.5	1109.2	1105.0	1099.9	1103.3
22.5°	1088.2	1086.5	1084.8	1079.8	1081.4
25°	1068.0	1062.9	1060.4	1057.0	1058.7
27.5°	1041.9	1038.5	1035.2	1033.5	1036.9
30°	1017.5	1012.5	1007.4	1005.8	1008.3
32.5°	994.8	985.6	979.7	980.5	978.0
35°	965.4	957.0	947.7	950.2	946.9
37.5°	939.3	929.2	919.1	921.7	917.5
40°	905.7	899.8	886.3	888.0	883.0
42.5°	873.7	870.4	852.7	853.5	851.0
45°	838.4	834.2	819.9	817.4	819.1
47.5°	801.4	797.2	784.6	778.7	781.2
50°	763.6	758.5	746.7	741.7	745.1
52.5°	720.7	718.2	708.9	701.3	703.9
55°	679.5	673.6	666.9	658.4	663.5
57.5°	639.1	632.4	619.8	615.6	620.6
60°	595.4	584.4	571.8	568.5	576.0
62.5°	550.0	537.4	521.4	522.2	531.5
65°	497.0	488.6	470.9	476.8	480.2
67.5°	443.2	436.4	419.6	428.0	418.8
70°	391.9	383.5	370.0	359.1	349.0
72.5°	337.2	327.1	318.7	290.1	278.3
75°	275.0	272.5	258.2	229.6	215.3
77.5°	222.0	216.1	196.8	174.9	176.6
80°	163.1	167.3	141.3	151.4	155.6
82.5°	107.6	110.2	116.9	121.9	121.1
85°	59.7	65.6	77.4	77.4	79.0
87.5°	22.7	29.4	33.6	34.5	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)