

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: P393147

Luminaire Tested: **14EN-LD2-43-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393147
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 (3000K)
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: 3494.7 lumens
Efficiency: N/A
Efficacy: 83.6 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

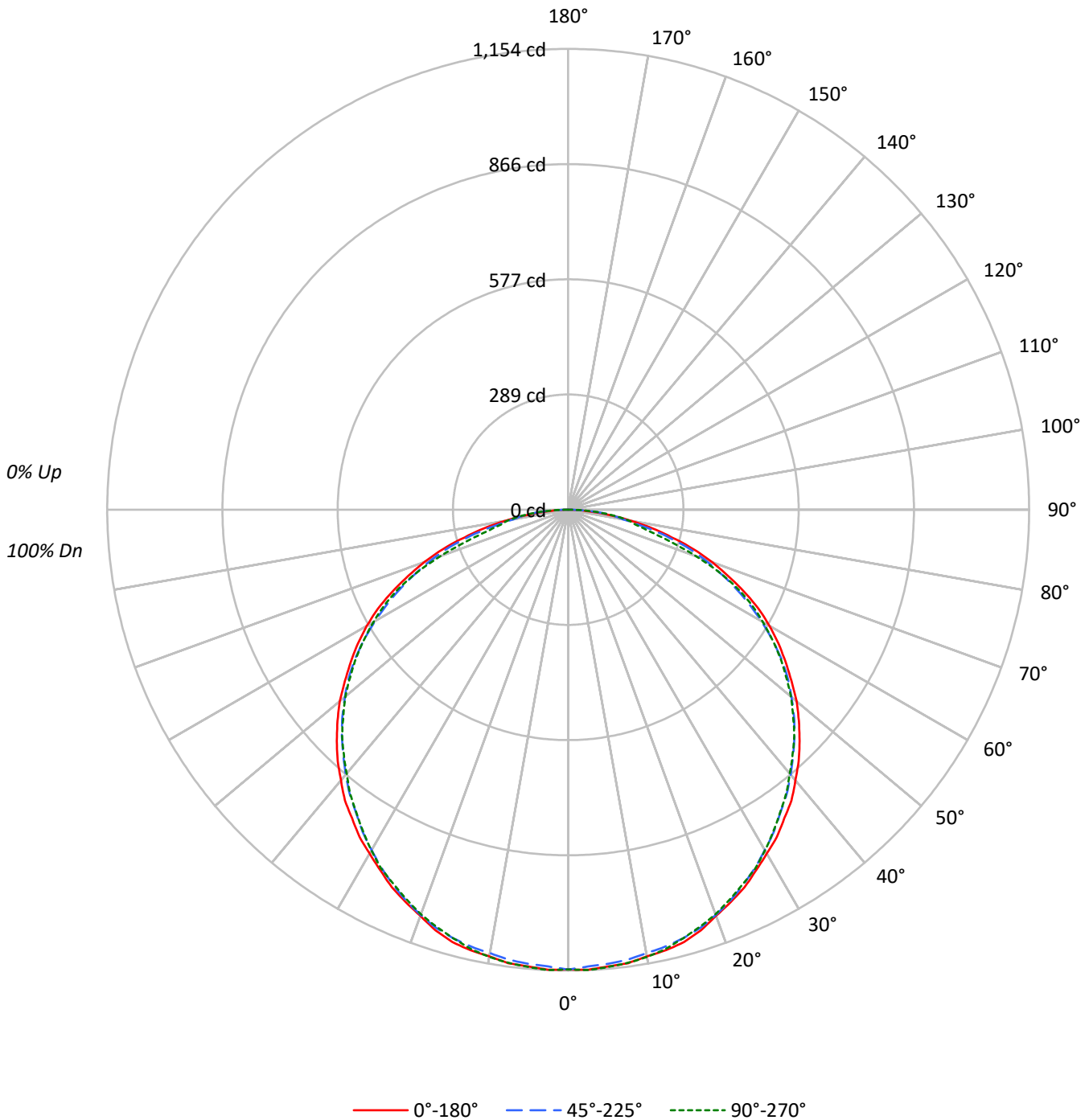
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3098	3098	3098
5°	3101	3083	3105
10°	3103	3081	3108
15°	3123	3095	3095
20°	3099	3092	3087
25°	3099	3077	3072
30°	3090	3059	3062
35°	3099	3042	3040
40°	3109	3042	3031
45°	3118	3049	3046
50°	3123	3055	3048
55°	3115	3057	3042
60°	3131	3007	3030
65°	3093	2930	2988
70°	3013	2845	2683
75°	2794	2623	2188
80°	2470	2140	2356
85°	1800	2334	2384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	3.1
10°-20°	314.1	9.0
20°-30°	478.0	13.7
30°-40°	583.5	16.7
40°-50°	621.7	17.8
50°-60°	582.9	16.7
60°-70°	463.0	13.2
70°-80°	263.2	7.5
80°-90°	79.0	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°	901.3	25.8
0°-40°	1484.8	42.5
0°-60°	2689.4	77.0
0°-90°	3494.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3494.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1148	1146	1141	1150	1150	109
15°	1121	1118	1111	1109	1111	316
25°	1044	1039	1036	1033	1035	481
35°	943	935	926	929	925	591
45°	819	815	801	799	800	632
55°	664	658	652	643	648	594
65°	486	477	460	466	469	480
75°	269	266	252	224	210	286
85°	58	64	76	76	77	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1152.9	1149.6	1144.7	1155.4	1153.7
5°	1148.0	1145.5	1141.4	1150.4	1149.6
7.5°	1145.5	1140.6	1136.5	1146.3	1144.7
10°	1135.7	1136.5	1127.4	1137.3	1137.3
12.5°	1129.9	1128.3	1120.9	1124.1	1126.6
15°	1120.9	1117.6	1111.0	1109.4	1111.0
17.5°	1104.4	1101.1	1098.7	1092.9	1095.4
20°	1082.2	1083.9	1079.8	1074.8	1078.1
22.5°	1063.3	1061.7	1060.0	1055.1	1056.8
25°	1043.6	1038.7	1036.2	1032.9	1034.6
27.5°	1018.1	1014.9	1011.6	1009.9	1013.2
30°	994.3	989.4	984.4	982.8	985.3
32.5°	972.1	963.1	957.3	958.2	955.7
35°	943.4	935.1	926.1	928.6	925.3
37.5°	917.9	908.0	898.2	900.6	896.5
40°	885.0	879.3	866.1	867.8	862.8
42.5°	853.8	850.5	833.2	834.1	831.6
45°	819.3	815.2	801.2	798.7	800.4
47.5°	783.1	779.0	766.7	760.9	763.4
50°	746.1	741.2	729.7	724.8	728.1
52.5°	704.2	701.8	692.7	685.3	687.8
55°	664.0	658.2	651.6	643.4	648.4
57.5°	624.5	618.0	605.6	601.5	606.4
60°	581.8	571.1	558.8	555.5	562.9
62.5°	537.4	525.1	509.5	510.3	519.3
65°	485.7	477.4	460.2	465.9	469.2
67.5°	433.1	426.5	410.1	418.3	409.2
70°	382.9	374.7	361.6	350.9	341.0
72.5°	329.5	319.7	311.4	283.5	272.0
75°	268.7	266.2	252.3	224.3	210.4
77.5°	216.9	211.2	192.3	170.9	172.6
80°	159.4	163.5	138.1	147.9	152.0
82.5°	105.2	107.6	114.2	119.2	118.3
85°	58.3	64.1	75.6	75.6	77.2
87.5°	22.2	28.8	32.9	33.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)