

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: P393179

Luminaire Tested: **14EN-LD2-47-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-55)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-47-UNV-L93050-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 4700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3876.9 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

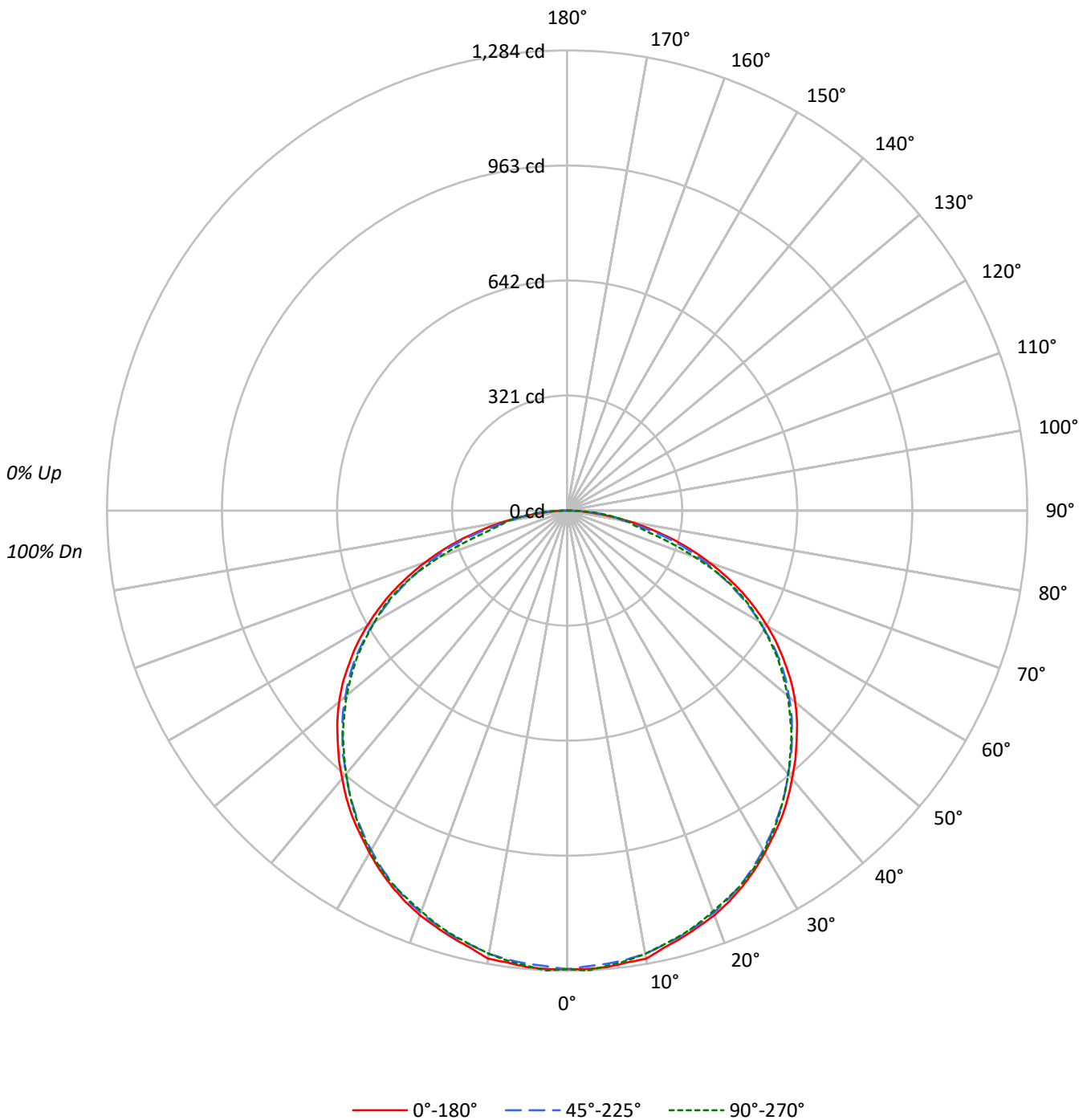
Input Watts (W): 46.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57					57			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48					48			
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42					42			
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28					28			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3443	3443	3443
5°	3454	3430	3445
10°	3469	3431	3431
15°	3439	3425	3418
20°	3440	3419	3407
25°	3435	3413	3418
30°	3427	3398	3411
35°	3431	3385	3393
40°	3429	3369	3372
45°	3446	3374	3368
50°	3478	3382	3361
55°	3481	3389	3362
60°	3472	3335	3335
65°	3427	3254	3301
70°	3310	3161	2987
75°	3118	2922	2452
80°	2763	2419	2624
85°	2029	2612	2612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.1
10°-20°	347.5	9.0
20°-30°	531.2	13.7
30°-40°	647.5	16.7
40°-50°	688.0	17.7
50°-60°	647.3	16.7
60°-70°	513.8	13.3
70°-80°	292.2	7.5
80°-90°	88.2	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°	999.8	25.8
0°-40°	1647.3	42.5
0°-60°	2982.6	76.9
0°-90°	3876.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1280	1280	1280	1280	1280	
5°	1279	1277	1270	1271	1275	122
15°	1234	1233	1229	1228	1227	349
25°	1157	1155	1150	1152	1151	533
35°	1044	1043	1030	1028	1033	653
45°	906	899	887	884	885	700
55°	742	735	722	717	717	663
65°	538	530	511	518	518	531
75°	300	293	281	248	236	316
85°	66	72	85	83	85	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1279.5	1279.5	1279.5	1279.5	1279.5
2.5°	1280.3	1281.1	1272.9	1277.8	1284.4
5°	1278.6	1277.0	1269.6	1271.2	1275.3
7.5°	1272.1	1270.4	1263.8	1263.8	1267.1
10°	1269.6	1261.4	1255.6	1254.0	1255.6
12.5°	1249.1	1249.1	1241.7	1242.5	1240.8
15°	1234.3	1233.4	1229.3	1227.7	1226.9
17.5°	1217.8	1216.2	1212.1	1215.4	1210.4
20°	1201.4	1198.9	1194.0	1196.5	1189.9
22.5°	1180.8	1176.7	1173.5	1177.6	1170.2
25°	1157.0	1154.6	1149.6	1152.1	1151.3
27.5°	1131.5	1129.9	1123.3	1123.3	1126.6
30°	1102.8	1102.0	1093.7	1094.6	1097.9
32.5°	1073.2	1071.6	1063.3	1060.9	1066.6
35°	1044.4	1042.8	1030.5	1028.0	1032.9
37.5°	1011.6	1009.1	996.8	992.7	996.8
40°	976.2	974.6	959.0	955.7	959.8
42.5°	942.5	936.8	925.3	920.4	921.2
45°	905.6	899.0	886.7	884.2	885.0
47.5°	870.2	861.2	849.7	847.2	843.1
50°	830.8	820.1	807.8	804.5	802.8
52.5°	788.9	777.4	767.5	760.9	759.3
55°	742.0	734.6	722.3	717.4	716.6
57.5°	696.0	687.0	673.0	668.1	667.3
60°	645.1	639.3	619.6	618.8	619.6
62.5°	592.5	584.3	567.8	569.5	574.4
65°	538.2	530.0	511.1	517.7	518.5
67.5°	479.9	473.3	454.4	458.5	453.6
70°	420.7	415.8	401.8	392.0	379.6
72.5°	361.6	354.2	345.1	316.4	305.7
75°	299.9	293.4	281.0	248.2	235.8
77.5°	236.7	235.0	212.0	189.8	192.3
80°	178.3	180.0	156.1	164.3	169.3
82.5°	118.3	119.2	125.7	133.1	129.8
85°	65.7	71.5	84.6	83.0	84.6
87.5°	23.8	36.2	37.0	39.4	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)