

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: P393122

Luminaire Tested: **14EN-LD2-43-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393122
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-L82765-W2A-1-U (2700K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3863.4 lumens
Efficiency: N/A
Efficacy: 92.6 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

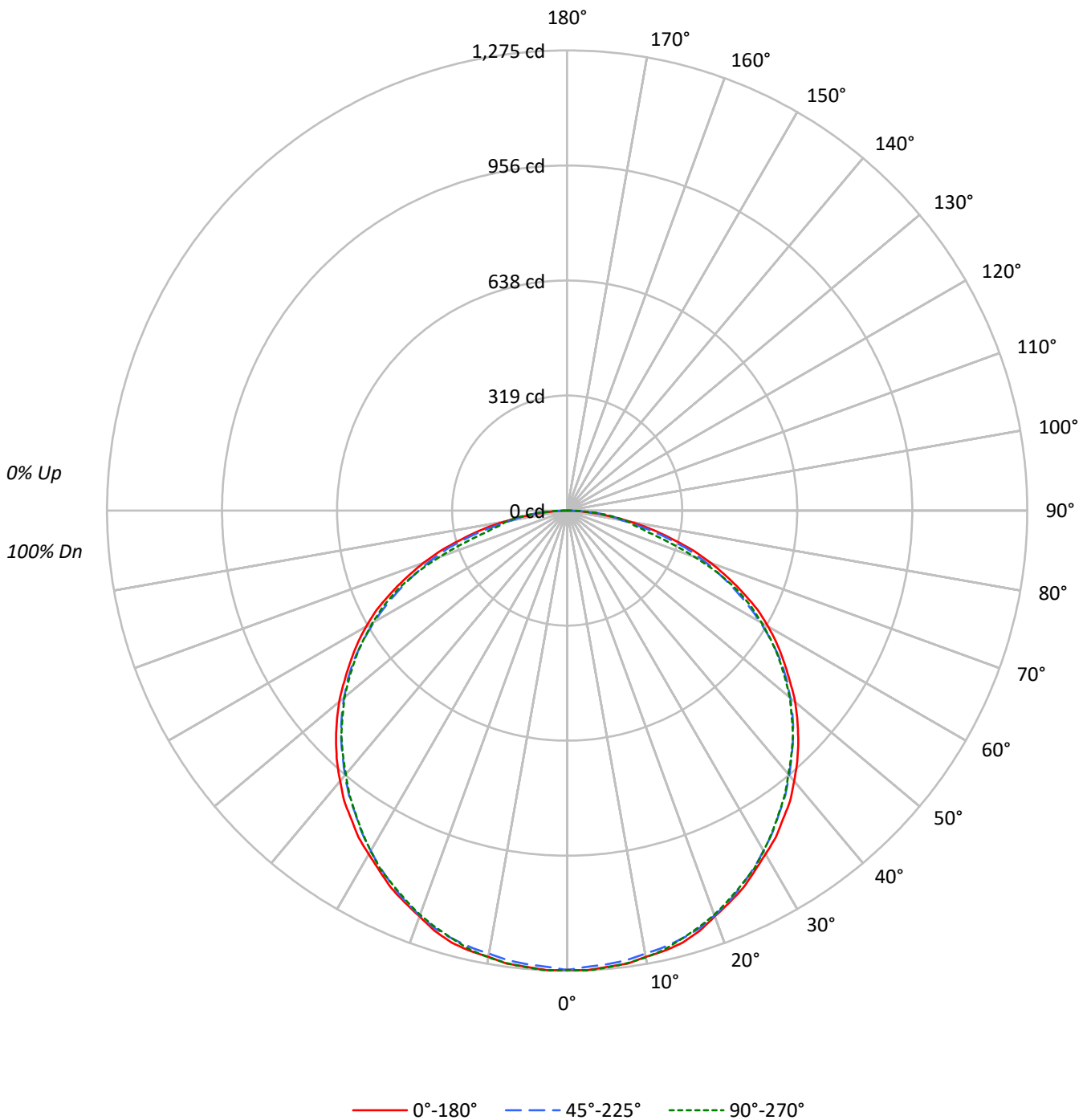
Input Watts (W): 41.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3425	3425	3425
5°	3428	3408	3433
10°	3431	3406	3436
15°	3452	3422	3422
20°	3426	3418	3413
25°	3426	3401	3396
30°	3416	3382	3384
35°	3426	3363	3360
40°	3437	3364	3351
45°	3447	3371	3367
50°	3453	3377	3370
55°	3444	3380	3363
60°	3462	3324	3349
65°	3419	3239	3303
70°	3330	3145	2966
75°	3089	2900	2418
80°	2731	2365	2605
85°	1991	2581	2637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	3.1
10°-20°	347.3	9.0
20°-30°	528.5	13.7
30°-40°	645.1	16.7
40°-50°	687.3	17.8
50°-60°	644.4	16.7
60°-70°	511.8	13.2
70°-80°	291.0	7.5
80°-90°	87.3	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°	996.4	25.8
0°-40°	1641.4	42.5
0°-60°	2973.1	77.0
0°-90°	3863.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3863.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1269	1266	1262	1272	1271	121
15°	1239	1236	1228	1226	1228	349
25°	1154	1148	1146	1142	1144	531
35°	1043	1034	1024	1026	1023	654
45°	906	901	886	883	885	699
55°	734	728	720	711	717	657
65°	537	528	509	515	519	530
75°	297	294	279	248	233	317
85°	64	71	84	84	85	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.7	1272.7	1272.7	1272.7	1272.7
2.5°	1274.5	1270.9	1265.4	1277.3	1275.4
5°	1269.1	1266.4	1261.8	1271.8	1270.9
7.5°	1266.4	1260.9	1256.4	1267.3	1265.4
10°	1255.5	1256.4	1246.4	1257.3	1257.3
12.5°	1249.1	1247.3	1239.1	1242.7	1245.5
15°	1239.1	1235.5	1228.2	1226.4	1228.2
17.5°	1220.9	1217.3	1214.6	1208.2	1210.9
20°	1196.4	1198.2	1193.7	1188.2	1191.9
22.5°	1175.5	1173.7	1171.9	1166.4	1168.2
25°	1153.7	1148.3	1145.5	1141.9	1143.7
27.5°	1125.5	1121.9	1118.3	1116.5	1120.1
30°	1099.2	1093.8	1088.3	1086.5	1089.2
32.5°	1074.7	1064.7	1058.3	1059.2	1056.5
35°	1042.9	1033.8	1023.8	1026.5	1022.9
37.5°	1014.7	1003.8	992.9	995.6	991.1
40°	978.4	972.0	957.5	959.3	953.9
42.5°	943.9	940.2	921.1	922.1	919.3
45°	905.7	901.2	885.7	883.0	884.8
47.5°	865.7	861.2	847.6	841.2	843.9
50°	824.9	819.4	806.7	801.2	804.9
52.5°	778.5	775.8	765.8	757.6	760.4
55°	734.0	727.7	720.4	711.3	716.8
57.5°	690.4	683.1	669.5	665.0	670.4
60°	643.2	631.4	617.7	614.1	622.3
62.5°	594.1	580.5	563.2	564.1	574.1
65°	536.9	527.8	508.7	515.1	518.7
67.5°	478.7	471.5	453.3	462.4	452.4
70°	423.3	414.2	399.7	387.9	377.0
72.5°	364.3	353.4	344.3	313.4	300.7
75°	297.1	294.3	278.9	248.0	232.6
77.5°	239.8	233.5	212.6	189.0	190.8
80°	176.2	180.8	152.6	163.5	168.1
82.5°	116.3	119.0	126.3	131.7	130.8
85°	64.5	70.9	83.6	83.6	85.4
87.5°	24.5	31.8	36.3	37.2	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)