

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: P393101

Luminaire Tested: **14EN-LD2-38-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-53)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-38-UNV-L83050-W2A-1-U (4000K)
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3789.3 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

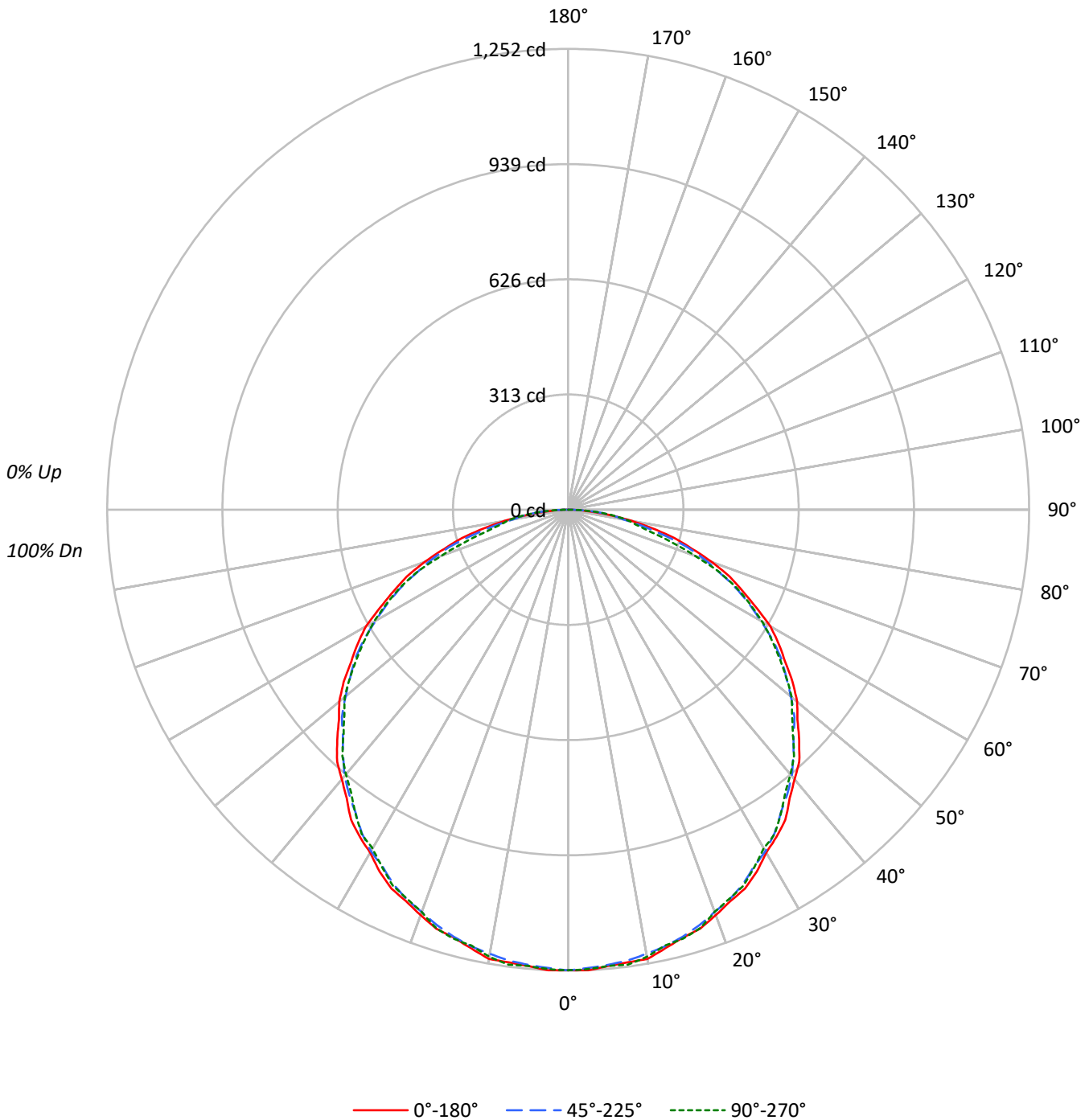
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3367	3367	3367
5°	3361	3353	3361
10°	3386	3348	3370
15°	3352	3346	3360
20°	3356	3330	3330
25°	3372	3334	3346
30°	3342	3329	3301
35°	3378	3306	3309
40°	3358	3320	3299
45°	3375	3295	3283
50°	3397	3304	3317
55°	3373	3312	3279
60°	3411	3249	3275
65°	3325	3197	3223
70°	3256	3098	2884
75°	3101	2819	2391
80°	2707	2334	2537
85°	1985	2510	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	3.1
10°-20°	339.9	9.0
20°-30°	518.4	13.7
30°-40°	633.3	16.7
40°-50°	673.6	17.8
50°-60°	632.4	16.7
60°-70°	501.5	13.2
70°-80°	285.7	7.5
80°-90°	85.9	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°	976.8	25.8
0°-40°	1610.1	42.5
0°-60°	2916.1	77.0
0°-90°	3789.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3789.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1244	1251	1241	1245	1244	119
15°	1203	1205	1201	1203	1206	341
25°	1136	1125	1123	1124	1127	522
35°	1028	1016	1006	1007	1007	640
45°	887	882	866	867	863	685
55°	719	715	706	699	699	646
65°	522	519	502	504	506	519
75°	298	287	271	243	230	311
85°	64	71	81	81	82	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.3	1251.3	1251.3	1251.3	1251.3
2.5°	1252.3	1251.3	1246.3	1252.3	1249.3
5°	1244.3	1251.3	1241.3	1245.3	1244.3
7.5°	1240.3	1238.2	1235.2	1242.3	1246.3
10°	1239.2	1229.2	1225.2	1232.2	1233.2
12.5°	1220.2	1223.2	1215.1	1217.2	1213.1
15°	1203.1	1205.1	1201.1	1203.1	1206.1
17.5°	1193.1	1187.0	1184.0	1188.0	1192.0
20°	1172.0	1173.0	1162.9	1167.9	1162.9
22.5°	1150.9	1151.9	1145.9	1145.9	1143.8
25°	1135.8	1124.8	1122.8	1123.8	1126.8
27.5°	1108.7	1104.7	1092.6	1096.6	1094.6
30°	1075.6	1079.6	1071.5	1063.5	1062.5
32.5°	1053.5	1046.4	1042.4	1039.4	1044.4
35°	1028.4	1016.3	1006.3	1007.3	1007.3
37.5°	988.2	987.2	976.1	971.1	968.1
40°	956.0	952.0	945.0	938.0	939.0
42.5°	928.9	915.9	904.8	902.8	907.8
45°	886.8	881.7	865.7	866.7	862.7
47.5°	844.6	843.6	833.5	825.5	824.5
50°	811.4	801.4	789.3	787.3	792.4
52.5°	768.3	763.2	746.2	746.2	746.2
55°	719.0	715.0	706.0	699.0	699.0
57.5°	677.9	669.8	658.8	653.8	653.8
60°	633.7	621.6	603.6	605.6	608.6
62.5°	575.4	569.4	553.3	551.3	557.4
65°	522.2	519.2	502.1	504.1	506.1
67.5°	475.0	462.0	442.9	449.9	445.9
70°	413.8	406.7	393.7	379.6	366.6
72.5°	352.5	348.5	341.4	307.3	295.3
75°	298.3	287.2	271.1	243.0	230.0
77.5°	234.0	231.0	207.9	185.8	187.8
80°	174.7	176.7	150.6	159.7	163.7
82.5°	114.5	118.5	123.5	129.5	126.5
85°	64.3	71.3	81.3	81.3	82.3
87.5°	23.1	34.1	36.2	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)