

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: P393173

Luminaire Tested: **14EN-LD2-47-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393173  
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-L92765-W2A-1-U (4000K)  
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: 3901.9 lumens  
Efficiency: N/A  
Efficacy: 83.6 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

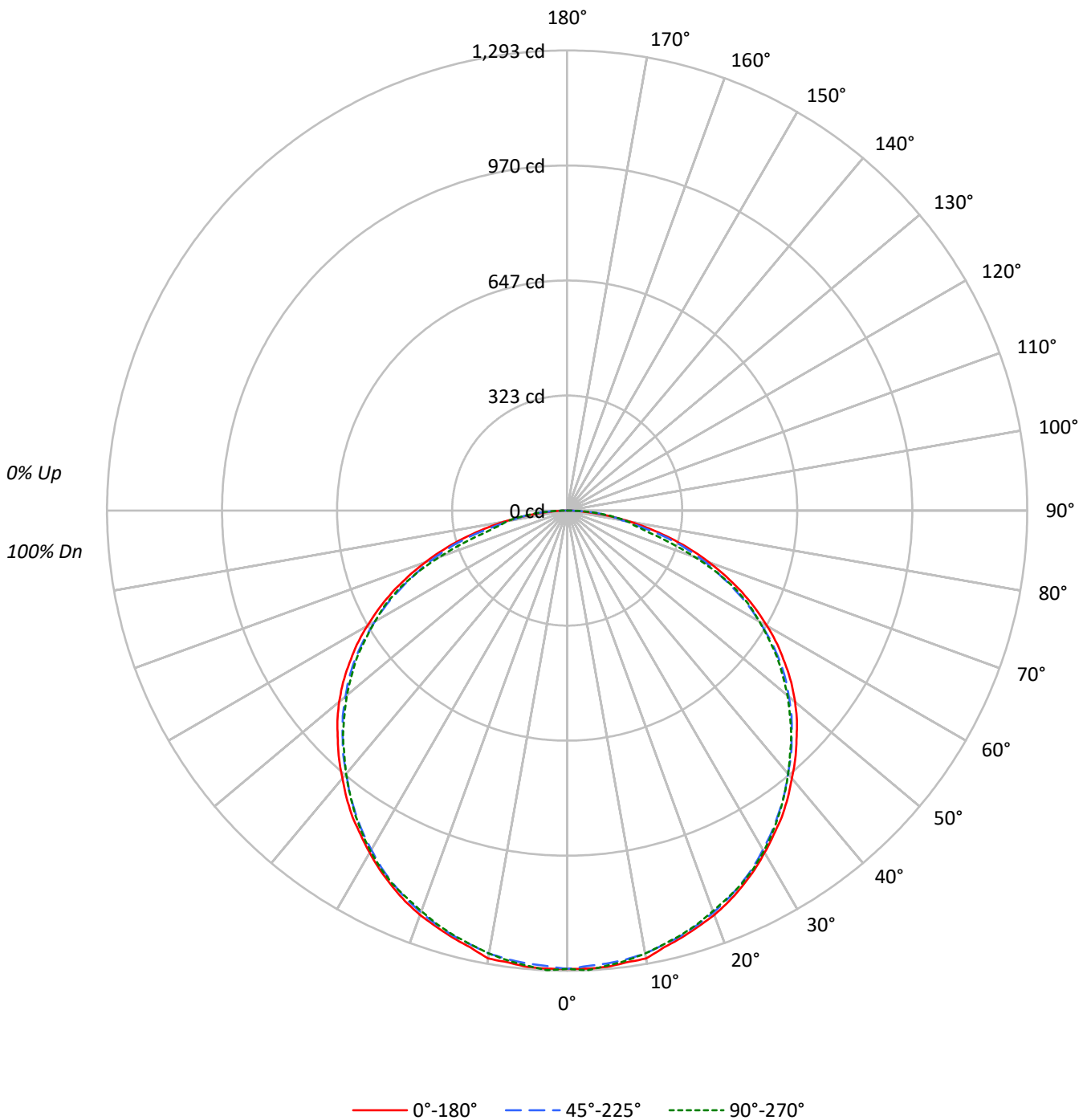
Input Watts (W): 46.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	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	34	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°	3465	3465	3465
5°	3476	3452	3467
10°	3492	3453	3453
15°	3461	3447	3440
20°	3462	3441	3430
25°	3458	3435	3440
30°	3449	3420	3433
35°	3453	3407	3415
40°	3451	3391	3393
45°	3468	3396	3390
50°	3500	3404	3383
55°	3504	3411	3384
60°	3494	3356	3356
65°	3449	3275	3323
70°	3331	3182	3006
75°	3139	2940	2468
80°	2782	2435	2641
85°	2044	2631	2631



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.9	3.1
10°-20°	349.8	9.0
20°-30°	534.6	13.7
30°-40°	651.6	16.7
40°-50°	692.5	17.7
50°-60°	651.5	16.7
60°-70°	517.1	13.3
70°-80°	294.1	7.5
80°-90°	88.8	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°	1006.2	25.8
0°-40°	1657.9	42.5
0°-60°	3001.9	76.9
0°-90°	3901.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3901.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1287	1285	1278	1279	1284	122
15°	1242	1241	1237	1236	1235	351
25°	1164	1162	1157	1160	1159	537
35°	1051	1050	1037	1035	1040	657
45°	911	905	892	890	891	704
55°	747	739	727	722	721	668
65°	542	533	514	521	522	534
75°	302	295	283	250	237	318
85°	66	72	85	84	85	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1287.7	1287.7	1287.7	1287.7	1287.7
2.5°	1288.5	1289.4	1281.1	1286.0	1292.7
5°	1286.9	1285.2	1277.8	1279.4	1283.6
7.5°	1280.3	1278.6	1272.0	1272.0	1275.3
10°	1277.8	1269.5	1263.7	1262.1	1263.7
12.5°	1257.1	1257.1	1249.7	1250.5	1248.8
15°	1242.2	1241.4	1237.2	1235.6	1234.8
17.5°	1225.7	1224.0	1219.9	1223.2	1218.2
20°	1209.1	1206.6	1201.7	1204.2	1197.6
22.5°	1188.5	1184.3	1181.0	1185.1	1177.7
25°	1164.5	1162.0	1157.0	1159.5	1158.7
27.5°	1138.8	1137.2	1130.6	1130.6	1133.9
30°	1109.9	1109.1	1100.8	1101.6	1104.9
32.5°	1080.1	1078.5	1070.2	1067.7	1073.5
35°	1051.2	1049.5	1037.1	1034.6	1039.6
37.5°	1018.1	1015.6	1003.2	999.1	1003.2
40°	982.5	980.9	965.2	961.8	966.0
42.5°	948.6	942.8	931.2	926.3	927.1
45°	911.4	904.8	892.4	889.9	890.7
47.5°	875.8	866.7	855.2	852.7	848.5
50°	836.1	825.4	813.0	809.7	808.0
52.5°	794.0	782.4	772.5	765.8	764.2
55°	746.8	739.4	727.0	722.0	721.2
57.5°	700.5	691.4	677.3	672.4	671.6
60°	649.2	643.4	623.6	622.8	623.6
62.5°	596.3	588.0	571.5	573.1	578.1
65°	541.7	533.4	514.4	521.0	521.9
67.5°	483.0	476.4	457.4	461.5	456.5
70°	423.4	418.5	404.4	394.5	382.1
72.5°	363.9	356.5	347.4	318.4	307.7
75°	301.9	295.3	282.8	249.8	237.4
77.5°	238.2	236.5	213.4	191.0	193.5
80°	179.5	181.1	157.1	165.4	170.4
82.5°	119.1	119.9	126.5	134.0	130.7
85°	66.2	72.0	85.2	83.5	85.2
87.5°	24.0	36.4	37.2	39.7	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)