

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: P393167

Luminaire Tested: **14EN-LD2-47-UNV-L83050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393167  
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-L83050-W2A-1-U (5000K)  
Description: 1X4 ENCOUNTER, 4700 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4806.8 lumens  
Efficiency: N/A  
Efficacy: 103.2 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

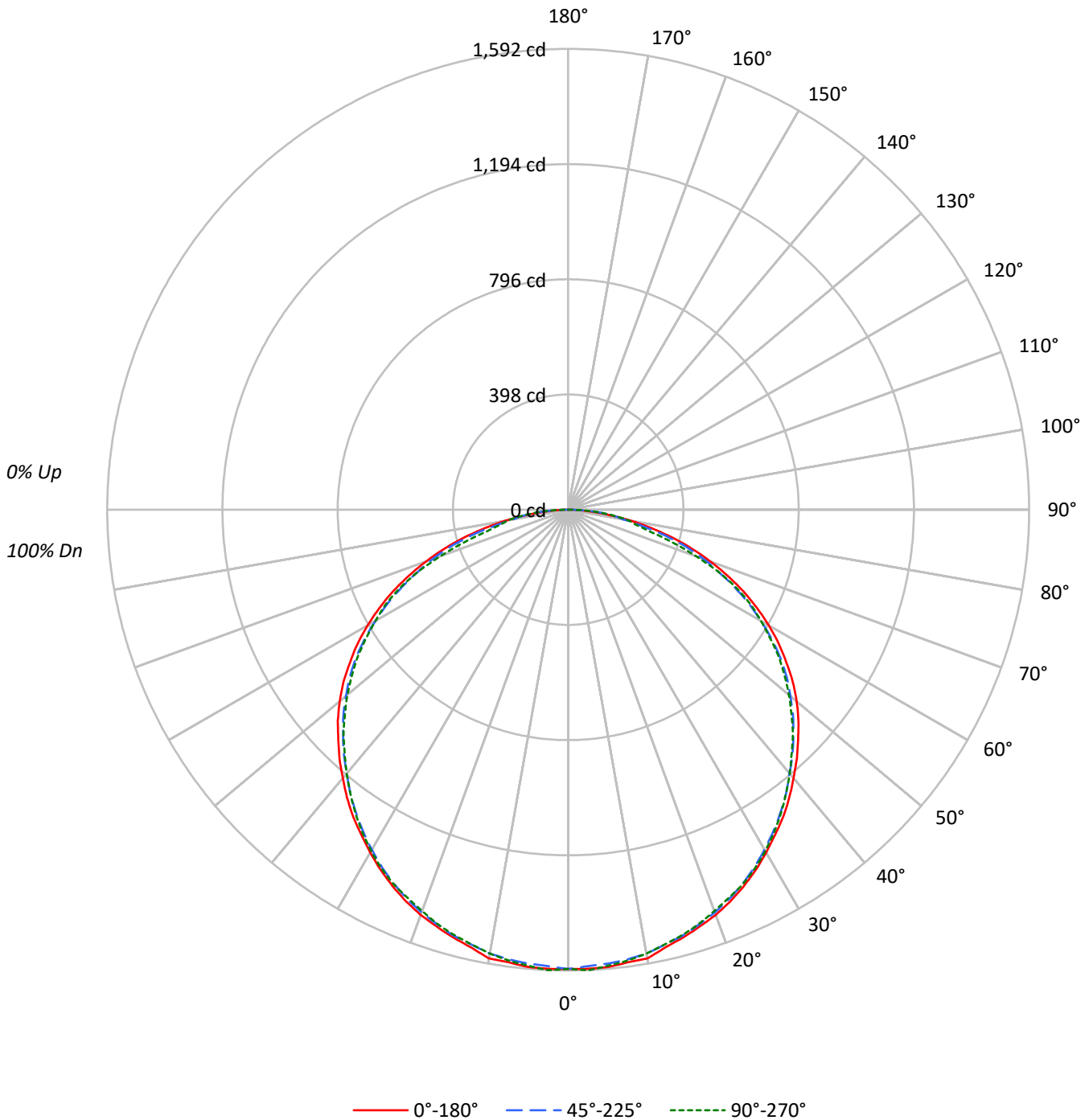
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4269	4269	4269
5°	4283	4252	4271
10°	4301	4254	4254
15°	4263	4246	4238
20°	4266	4239	4225
25°	4260	4232	4238
30°	4249	4214	4230
35°	4254	4197	4207
40°	4252	4177	4180
45°	4273	4184	4176
50°	4312	4193	4167
55°	4316	4202	4168
60°	4304	4134	4134
65°	4250	4035	4094
70°	4105	3920	3703
75°	3867	3623	3040
80°	3426	3000	3253
85°	2516	3239	3239



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.1	3.1
10°-20°	430.9	9.0
20°-30°	658.6	13.7
30°-40°	802.8	16.7
40°-50°	853.1	17.7
50°-60°	802.6	16.7
60°-70°	637.1	13.3
70°-80°	362.3	7.5
80°-90°	109.4	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°	1239.6	25.8
0°-40°	2042.4	42.5
0°-60°	3698.1	76.9
0°-90°	4806.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4806.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1585	1583	1574	1576	1581	151
15°	1530	1529	1524	1522	1521	433
25°	1435	1432	1425	1428	1427	661
35°	1295	1293	1278	1275	1281	810
45°	1123	1115	1099	1096	1097	868
55°	920	911	896	890	888	823
65°	667	657	634	642	643	658
75°	372	364	348	308	292	392
85°	82	89	105	103	105	100
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1586.4	1586.4	1586.4	1586.4	1586.4
2.5°	1587.4	1588.4	1578.2	1584.3	1592.5
5°	1585.4	1583.3	1574.1	1576.2	1581.3
7.5°	1577.2	1575.2	1567.0	1567.0	1571.1
10°	1574.1	1564.0	1556.8	1554.8	1556.8
12.5°	1548.7	1548.7	1539.5	1540.5	1538.5
15°	1530.3	1529.3	1524.2	1522.2	1521.2
17.5°	1510.0	1507.9	1502.8	1506.9	1500.8
20°	1489.6	1486.5	1480.4	1483.5	1475.3
22.5°	1464.1	1459.0	1454.9	1460.0	1450.9
25°	1434.6	1431.5	1425.4	1428.4	1427.4
27.5°	1403.0	1400.9	1392.8	1392.8	1396.9
30°	1367.3	1366.3	1356.1	1357.1	1361.2
32.5°	1330.6	1328.6	1318.4	1315.4	1322.5
35°	1295.0	1292.9	1277.7	1274.6	1280.7
37.5°	1254.2	1251.2	1235.9	1230.8	1235.9
40°	1210.4	1208.4	1189.0	1184.9	1190.0
42.5°	1168.6	1161.5	1147.2	1141.1	1142.1
45°	1122.8	1114.6	1099.4	1096.3	1097.3
47.5°	1079.0	1067.8	1053.5	1050.5	1045.4
50°	1030.1	1016.8	1001.5	997.5	995.4
52.5°	978.1	963.8	951.6	943.5	941.4
55°	920.0	910.9	895.6	889.5	888.5
57.5°	863.0	851.8	834.5	828.3	827.3
60°	799.8	792.7	768.2	767.2	768.2
62.5°	734.6	724.4	704.0	706.1	712.2
65°	667.4	657.2	633.7	641.9	642.9
67.5°	595.0	586.9	563.4	568.5	562.4
70°	521.7	515.5	498.2	486.0	470.7
72.5°	448.3	439.1	427.9	392.3	379.0
75°	371.9	363.7	348.5	307.7	292.4
77.5°	293.4	291.4	262.9	235.4	238.4
80°	221.1	223.1	193.6	203.8	209.9
82.5°	146.7	147.7	155.9	165.1	161.0
85°	81.5	88.6	104.9	102.9	104.9
87.5°	29.5	44.8	45.8	48.9	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)