

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: P393172

Luminaire Tested: **14EN-LD2-47-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393172  
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 (3500K)  
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: 3736.3 lumens  
Efficiency: N/A  
Efficacy: 80.2 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

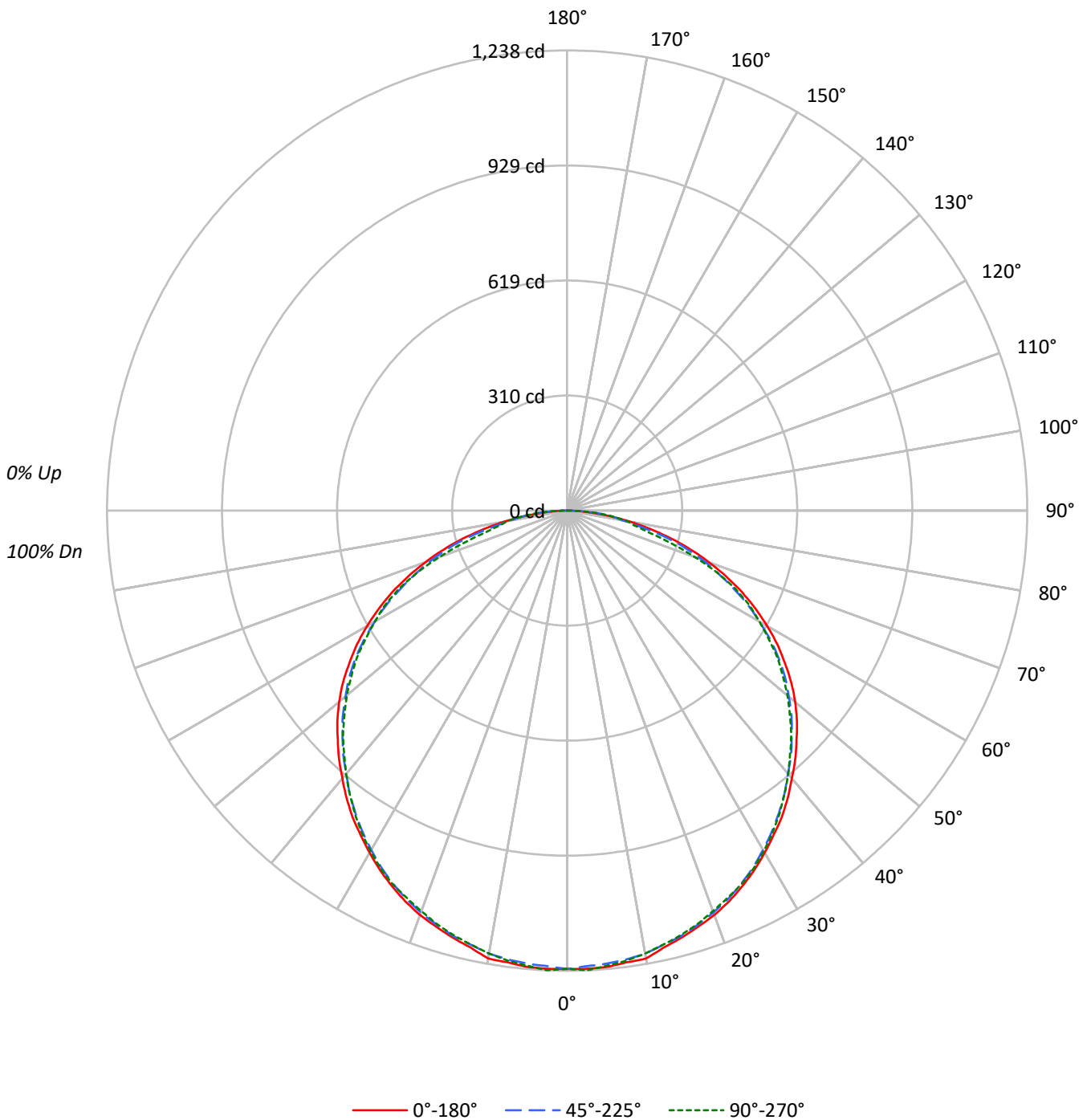
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3318	3318	3318
5°	3329	3305	3320
10°	3343	3307	3307
15°	3314	3301	3294
20°	3316	3295	3284
25°	3311	3290	3294
30°	3302	3275	3288
35°	3307	3262	3270
40°	3305	3247	3249
45°	3321	3252	3246
50°	3352	3259	3239
55°	3355	3266	3240
60°	3346	3214	3214
65°	3303	3137	3182
70°	3190	3047	2879
75°	3006	2816	2363
80°	2664	2332	2528
85°	1958	2519	2519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.7	3.1
10°-20°	334.9	9.0
20°-30°	511.9	13.7
30°-40°	624.0	16.7
40°-50°	663.1	17.7
50°-60°	623.9	16.7
60°-70°	495.2	13.3
70°-80°	281.6	7.5
80°-90°	85.0	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°	963.5	25.8
0°-40°	1587.5	42.5
0°-60°	2874.5	76.9
0°-90°	3736.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3736.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1232	1231	1224	1225	1229	117
15°	1190	1189	1185	1183	1182	336
25°	1115	1113	1108	1110	1110	514
35°	1007	1005	993	991	996	629
45°	873	866	854	852	853	674
55°	715	708	696	691	691	639
65°	519	511	493	499	500	511
75°	289	283	271	239	227	304
85°	63	69	82	80	82	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1233.1	1233.1	1233.1	1233.1	1233.1
2.5°	1233.9	1234.7	1226.7	1231.5	1237.8
5°	1232.3	1230.7	1223.6	1225.2	1229.1
7.5°	1225.9	1224.4	1218.0	1218.0	1221.2
10°	1223.6	1215.6	1210.1	1208.5	1210.1
12.5°	1203.8	1203.8	1196.6	1197.4	1195.9
15°	1189.5	1188.7	1184.8	1183.2	1182.4
17.5°	1173.7	1172.1	1168.1	1171.3	1166.5
20°	1157.8	1155.5	1150.7	1153.1	1146.7
22.5°	1138.0	1134.1	1130.9	1134.9	1127.7
25°	1115.1	1112.7	1107.9	1110.3	1109.5
27.5°	1090.5	1088.9	1082.6	1082.6	1085.8
30°	1062.8	1062.0	1054.1	1054.9	1058.1
32.5°	1034.3	1032.7	1024.8	1022.4	1028.0
35°	1006.6	1005.0	993.1	990.7	995.5
37.5°	974.9	972.5	960.6	956.7	960.6
40°	940.8	939.3	924.2	921.0	925.0
42.5°	908.4	902.8	891.7	887.0	887.8
45°	872.7	866.4	854.5	852.1	852.9
47.5°	838.7	830.0	818.9	816.5	812.5
50°	800.7	790.4	778.5	775.3	773.7
52.5°	760.3	749.2	739.7	733.3	731.8
55°	715.1	708.0	696.1	691.4	690.6
57.5°	670.8	662.1	648.6	643.9	643.1
60°	621.7	616.1	597.1	596.3	597.1
62.5°	571.0	563.1	547.2	548.8	553.6
65°	518.7	510.8	492.6	498.9	499.7
67.5°	462.5	456.2	438.0	441.9	437.2
70°	405.5	400.7	387.3	377.8	365.9
72.5°	348.5	341.3	332.6	304.9	294.6
75°	289.1	282.7	270.8	239.2	227.3
77.5°	228.1	226.5	204.3	182.9	185.3
80°	171.9	173.4	150.5	158.4	163.1
82.5°	114.0	114.8	121.2	128.3	125.1
85°	63.4	68.9	81.6	80.0	81.6
87.5°	23.0	34.8	35.6	38.0	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)