

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: P393170

Luminaire Tested: **14EN-LD2-47-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393170  
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 (2700K)  
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: 3540.8 lumens  
Efficiency: N/A  
Efficacy: 76.3 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

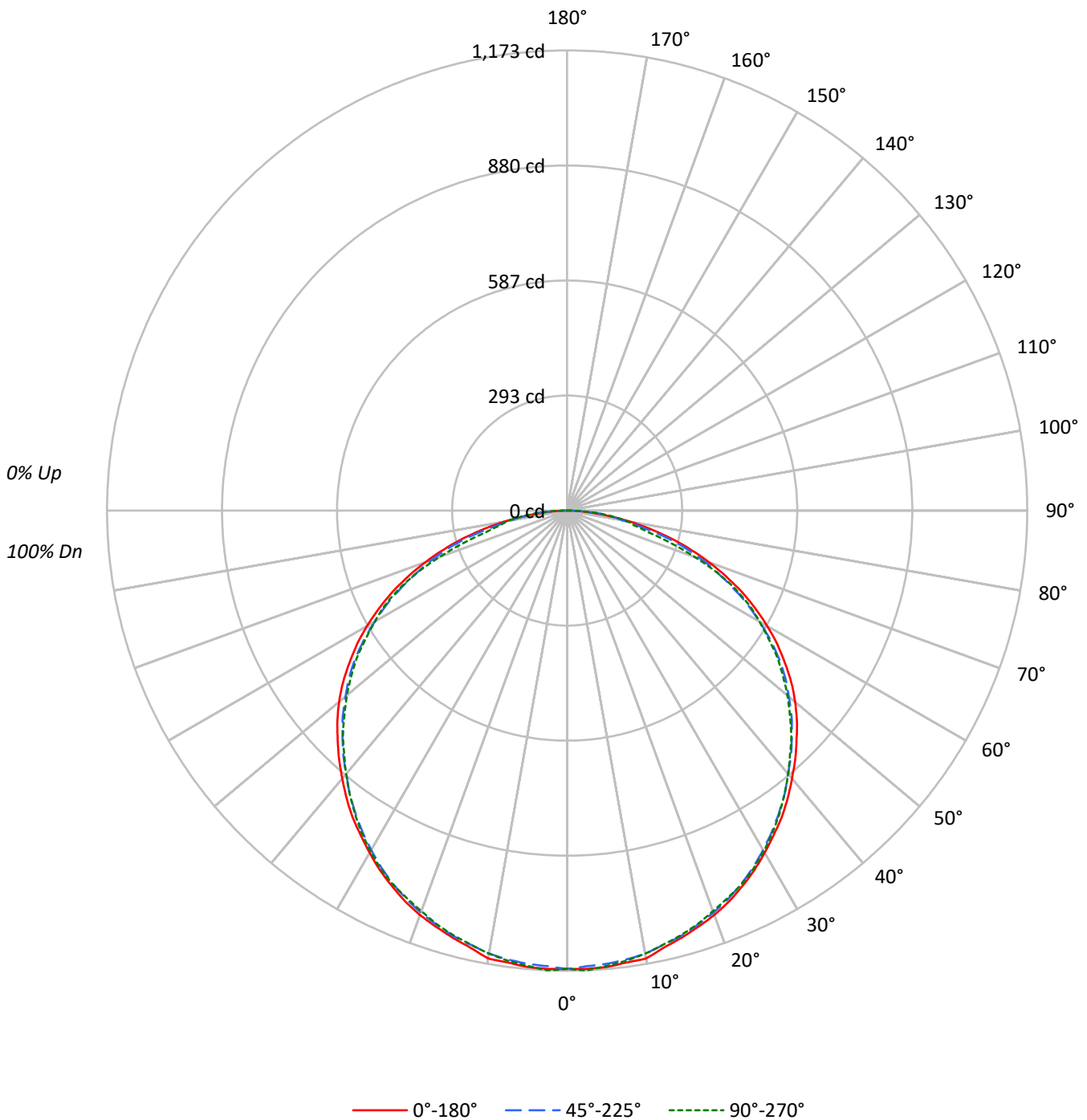
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P393170

CATALOG NUMBER: 14EN-LD2-47-UNV-L92765-W2A-1-U (2700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P393170

CATALOG NUMBER: 14EN-LD2-47-UNV-L92765-W2A-1-U (2700K)

**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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57					57			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48					48			
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42					42			
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28					28			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3144	3144	3144
5°	3155	3132	3146
10°	3168	3134	3134
15°	3141	3128	3122
20°	3142	3123	3112
25°	3138	3118	3122
30°	3130	3104	3116
35°	3134	3092	3099
40°	3132	3077	3079
45°	3148	3082	3076
50°	3177	3088	3069
55°	3179	3095	3070
60°	3171	3046	3046
65°	3130	2972	3016
70°	3024	2888	2728
75°	2848	2669	2240
80°	2524	2210	2396
85°	1853	2387	2387



TEST NUMBER: P393170

CATALOG NUMBER: 14EN-LD2-47-UNV-L92765-W2A-1-U (2700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.6	3.1
10°-20°	317.4	9.0
20°-30°	485.1	13.7
30°-40°	591.3	16.7
40°-50°	628.4	17.7
50°-60°	591.2	16.7
60°-70°	469.3	13.3
70°-80°	266.9	7.5
80°-90°	80.6	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°	913.1	25.8
0°-40°	1504.5	42.5
0°-60°	2724.1	76.9
0°-90°	3540.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3540.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1168	1166	1160	1161	1165	111
15°	1127	1126	1123	1121	1120	319
25°	1057	1054	1050	1052	1052	487
35°	954	952	941	939	943	597
45°	827	821	810	808	808	639
55°	678	671	660	655	654	606
65°	492	484	467	473	474	485
75°	274	268	257	227	215	288
85°	60	65	77	76	77	74
90°	0	0	0	0	0	



TEST NUMBER: P393170

CATALOG NUMBER: 14EN-LD2-47-UNV-L92765-W2A-1-U (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1168.5	1168.5	1168.5	1168.5	<i>1168.5</i>
2.5°	<i>1169.3</i>	<i>1170.0</i>	<i>1162.5</i>	<i>1167.0</i>	<i>1173.0</i>
5°	1167.8	1166.3	1159.5	1161.0	<i>1164.8</i>
7.5°	1161.8	1160.3	1154.3	1154.3	<i>1157.3</i>
10°	1159.5	1152.0	1146.8	1145.3	<i>1146.8</i>
12.5°	1140.8	1140.8	1134.0	1134.8	<i>1133.3</i>
15°	1127.3	1126.5	1122.8	1121.3	<i>1120.5</i>
17.5°	1112.2	1110.7	1107.0	1110.0	<i>1105.5</i>
20°	1097.2	1095.0	1090.5	1092.7	<i>1086.7</i>
22.5°	1078.5	1074.7	1071.7	1075.5	<i>1068.7</i>
25°	1056.7	1054.5	1050.0	1052.2	<i>1051.5</i>
27.5°	1033.4	1031.9	1025.9	1025.9	<i>1028.9</i>
30°	1007.2	1006.4	998.9	999.7	<i>1002.7</i>
32.5°	980.2	978.7	971.2	968.9	<i>974.2</i>
35°	953.9	952.4	941.1	938.9	<i>943.4</i>
37.5°	923.9	921.6	910.4	906.6	<i>910.4</i>
40°	891.6	890.1	875.8	872.8	<i>876.6</i>
42.5°	860.8	855.6	845.1	840.6	<i>841.3</i>
45°	827.1	821.1	809.8	807.5	<i>808.3</i>
47.5°	794.8	786.5	776.0	773.8	<i>770.0</i>
50°	758.8	749.0	737.7	734.7	<i>733.2</i>
52.5°	720.5	710.0	701.0	695.0	<i>693.5</i>
55°	677.7	671.0	659.7	655.2	<i>654.4</i>
57.5°	635.7	627.4	614.7	610.2	<i>609.4</i>
60°	589.1	583.9	565.9	565.1	<i>565.9</i>
62.5°	541.1	533.6	518.6	520.1	<i>524.6</i>
65°	491.6	484.1	466.8	472.8	<i>473.6</i>
67.5°	438.3	432.3	415.0	418.8	<i>414.3</i>
70°	384.3	379.8	367.0	358.0	<i>346.7</i>
72.5°	330.2	323.5	315.2	288.9	<i>279.2</i>
75°	273.9	267.9	256.7	226.7	<i>215.4</i>
77.5°	216.1	214.6	193.6	173.4	<i>175.6</i>
80°	162.9	164.4	142.6	150.1	<i>154.6</i>
82.5°	108.1	108.8	114.8	121.6	<i>118.6</i>
85°	60.0	65.3	77.3	75.8	<i>77.3</i>
87.5°	21.8	33.0	33.8	36.0	<i>35.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)