

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: P392979

Luminaire Tested: **14EN-LD2-18-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-49)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-18-UNV-L92765-W2A-1-U (3000K)  
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1355.1 lumens  
Efficiency: N/A  
Efficacy: 78.8 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

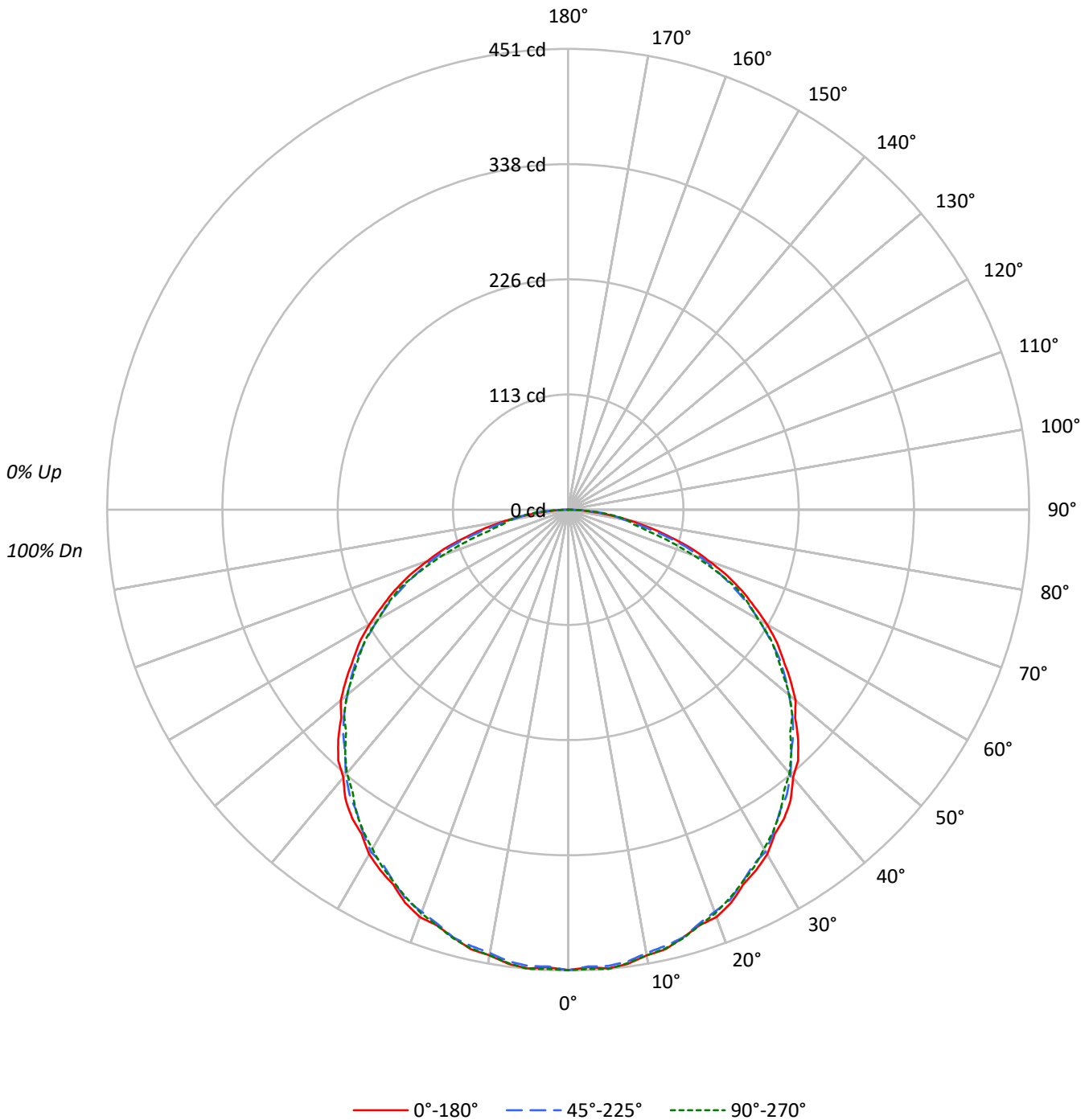
Input Watts (W): 17.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
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°	1213	1213	1213
5°	1217	1211	1219
10°	1210	1204	1210
15°	1208	1208	1210
20°	1215	1199	1204
25°	1202	1195	1195
30°	1210	1200	1191
35°	1211	1185	1188
40°	1202	1188	1183
45°	1211	1184	1169
50°	1215	1180	1183
55°	1206	1180	1170
60°	1208	1158	1154
65°	1193	1129	1158
70°	1151	1102	1029
75°	1078	1006	837
80°	948	840	911
85°	695	908	908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	3.1
10°-20°	122.4	9.0
20°-30°	186.3	13.7
30°-40°	227.3	16.8
40°-50°	241.0	17.8
50°-60°	225.4	16.6
60°-70°	178.3	13.2
70°-80°	101.2	7.5
80°-90°	30.7	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°	351.4	25.9
0°-40°	578.6	42.7
0°-60°	1045.0	77.1
0°-90°	1355.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1355.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	451	451	451	451	451	
5°	451	449	448	448	451	43
15°	434	433	434	430	434	123
25°	405	406	403	406	403	188
35°	368	366	361	362	362	230
45°	318	314	311	308	307	245
55°	257	256	252	248	249	231
65°	187	184	177	179	182	185
75°	104	101	97	86	80	110
85°	22	25	29	29	29	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	450.6	450.6	450.6	450.6	450.6
2.5°	448.2	452.1	447.5	453.7	449.8
5°	450.6	449.0	448.2	448.2	451.3
7.5°	448.2	445.9	445.9	444.4	447.5
10°	442.8	445.9	440.5	446.7	442.8
12.5°	440.5	438.2	437.4	437.4	439.7
15°	433.5	432.8	433.5	430.4	434.3
17.5°	426.6	430.4	425.0	430.4	426.6
20°	424.2	421.9	418.8	420.4	420.4
22.5°	416.5	411.9	413.4	410.3	411.9
25°	404.9	405.7	402.6	405.7	402.6
27.5°	397.9	397.1	391.7	394.0	394.0
30°	389.4	385.5	386.3	380.9	383.2
32.5°	376.2	376.2	373.9	373.9	373.1
35°	368.5	366.2	360.8	362.3	361.5
37.5°	357.7	352.2	351.5	346.8	346.8
40°	342.2	341.4	338.3	336.0	336.8
42.5°	332.9	329.8	322.8	324.4	322.8
45°	318.2	314.3	311.2	308.1	307.3
47.5°	301.1	301.1	297.3	295.0	297.3
50°	290.3	288.0	281.8	281.8	282.6
52.5°	274.1	271.0	267.1	264.8	264.8
55°	257.0	255.5	251.6	248.5	249.3
57.5°	242.3	239.2	233.0	233.0	234.6
60°	224.5	221.4	215.2	214.4	214.4
62.5°	205.2	203.6	197.4	196.6	199.0
65°	187.3	184.2	177.3	178.8	181.9
67.5°	168.0	163.3	157.9	159.5	156.4
70°	146.3	144.0	140.1	134.7	130.8
72.5°	127.0	123.1	120.8	109.9	105.3
75°	103.7	101.4	96.8	85.9	80.5
77.5°	82.8	81.3	73.5	64.3	65.0
80°	61.2	63.5	54.2	56.5	58.8
82.5°	41.0	41.8	44.1	46.4	46.4
85°	22.5	24.8	29.4	29.4	29.4
87.5°	9.3	11.6	13.2	13.2	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)