

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: P392962

Luminaire Tested: **14EN-LD2-18-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392962  
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-L82765-W2A-1-U (2700K)  
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1590.1 lumens  
Efficiency: N/A  
Efficacy: 91.9 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

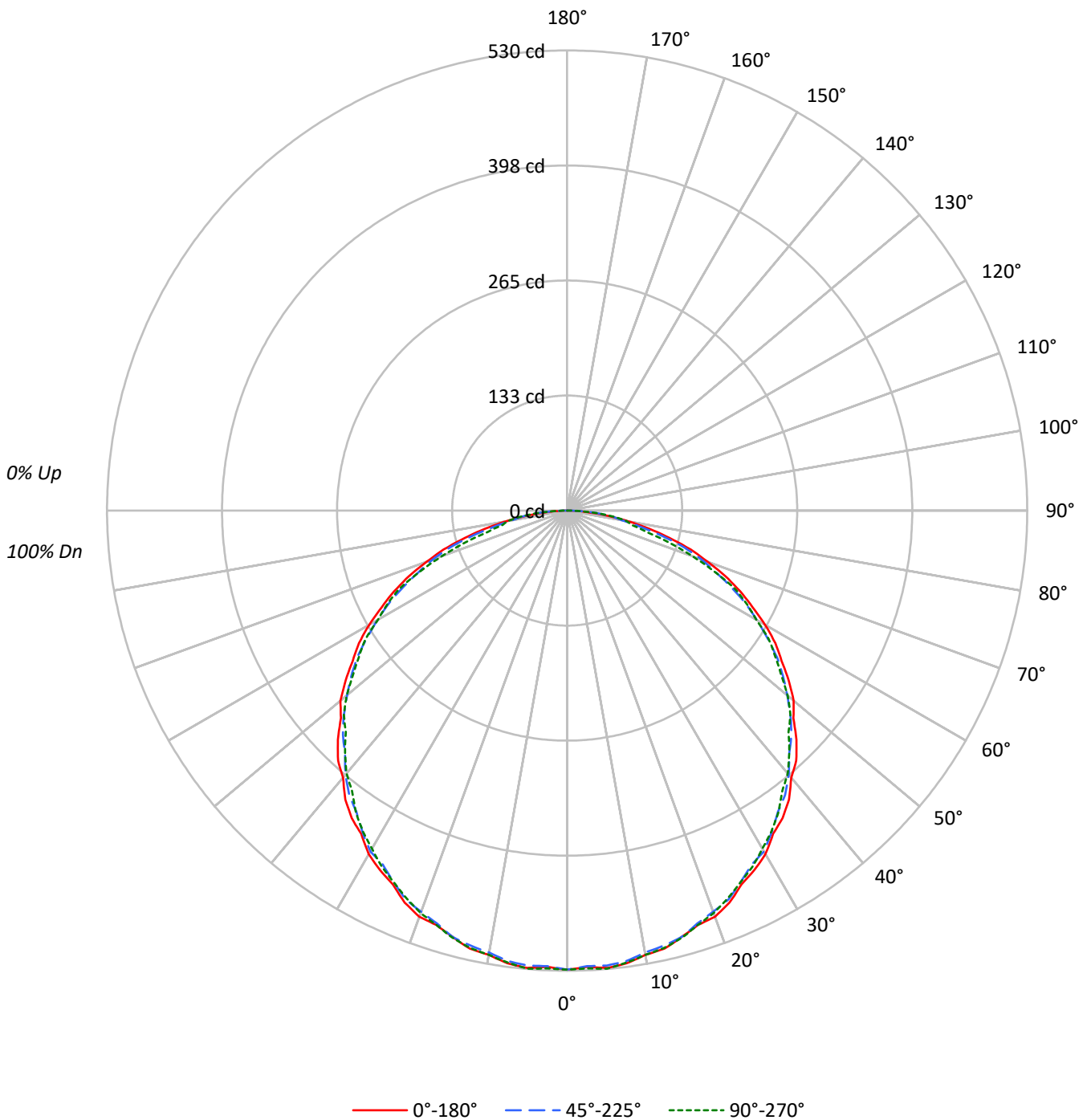
Input Watts (W): 17.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1423	1423	1423
5°	1428	1421	1431
10°	1420	1412	1420
15°	1417	1417	1420
20°	1426	1407	1413
25°	1411	1403	1403
30°	1420	1409	1397
35°	1420	1391	1394
40°	1410	1395	1388
45°	1421	1390	1372
50°	1426	1384	1388
55°	1415	1385	1372
60°	1418	1359	1354
65°	1400	1324	1359
70°	1351	1293	1208
75°	1265	1181	983
80°	1113	986	1069
85°	812	1065	1065



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.1	3.1
10°-20°	143.6	9.0
20°-30°	218.6	13.7
30°-40°	266.7	16.8
40°-50°	282.8	17.8
50°-60°	264.4	16.6
60°-70°	209.2	13.2
70°-80°	118.7	7.5
80°-90°	36.0	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°	412.3	25.9
0°-40°	679.0	42.7
0°-60°	1226.2	77.1
0°-90°	1590.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1590.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	529	529	529	529	529	
5°	529	527	526	526	530	50
15°	509	508	509	505	510	144
25°	475	476	472	476	472	220
35°	432	430	423	425	424	270
45°	373	369	365	362	361	287
55°	302	300	295	292	292	271
65°	220	216	208	210	214	217
75°	122	119	114	101	94	129
85°	26	29	34	34	34	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	528.7	528.7	528.7	528.7	528.7
2.5°	526.0	530.5	525.1	532.3	527.8
5°	528.7	526.9	526.0	526.0	529.6
7.5°	526.0	523.3	523.3	521.4	525.1
10°	519.6	523.3	516.9	524.2	519.6
12.5°	516.9	514.2	513.3	513.3	516.0
15°	508.7	507.8	508.7	505.1	509.6
17.5°	500.5	505.1	498.7	505.1	500.5
20°	497.8	495.1	491.5	493.3	493.3
22.5°	488.7	483.3	485.1	481.5	483.3
25°	475.1	476.0	472.4	476.0	472.4
27.5°	466.9	466.0	459.7	462.4	462.4
30°	456.9	452.4	453.3	446.9	449.7
32.5°	441.5	441.5	438.8	438.8	437.9
35°	432.4	429.7	423.3	425.1	424.2
37.5°	419.7	413.3	412.4	407.0	407.0
40°	401.5	400.6	397.0	394.3	395.2
42.5°	390.6	387.0	378.8	380.6	378.8
45°	373.4	368.8	365.2	361.6	360.6
47.5°	353.4	353.4	348.8	346.1	348.8
50°	340.7	337.9	330.7	330.7	331.6
52.5°	321.6	318.0	313.4	310.7	310.7
55°	301.6	299.8	295.2	291.6	292.5
57.5°	284.3	280.7	273.4	273.4	275.3
60°	263.4	259.8	252.5	251.6	251.6
62.5°	240.7	238.9	231.7	230.7	233.5
65°	219.8	216.2	208.0	209.8	213.5
67.5°	197.1	191.7	185.3	187.1	183.5
70°	171.7	169.0	164.4	158.1	153.5
72.5°	149.0	144.4	141.7	129.0	123.5
75°	121.7	119.0	113.6	100.8	94.5
77.5°	97.2	95.4	86.3	75.4	76.3
80°	71.8	74.5	63.6	66.3	69.0
82.5°	48.1	49.1	51.8	54.5	54.5
85°	26.3	29.1	34.5	34.5	34.5
87.5°	10.9	13.6	15.4	15.4	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)