

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: P392964

Luminaire Tested: **14EN-LD2-18-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392964
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 (3500K)
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: 1657.9 lumens
Efficiency: N/A
Efficacy: 95.8 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

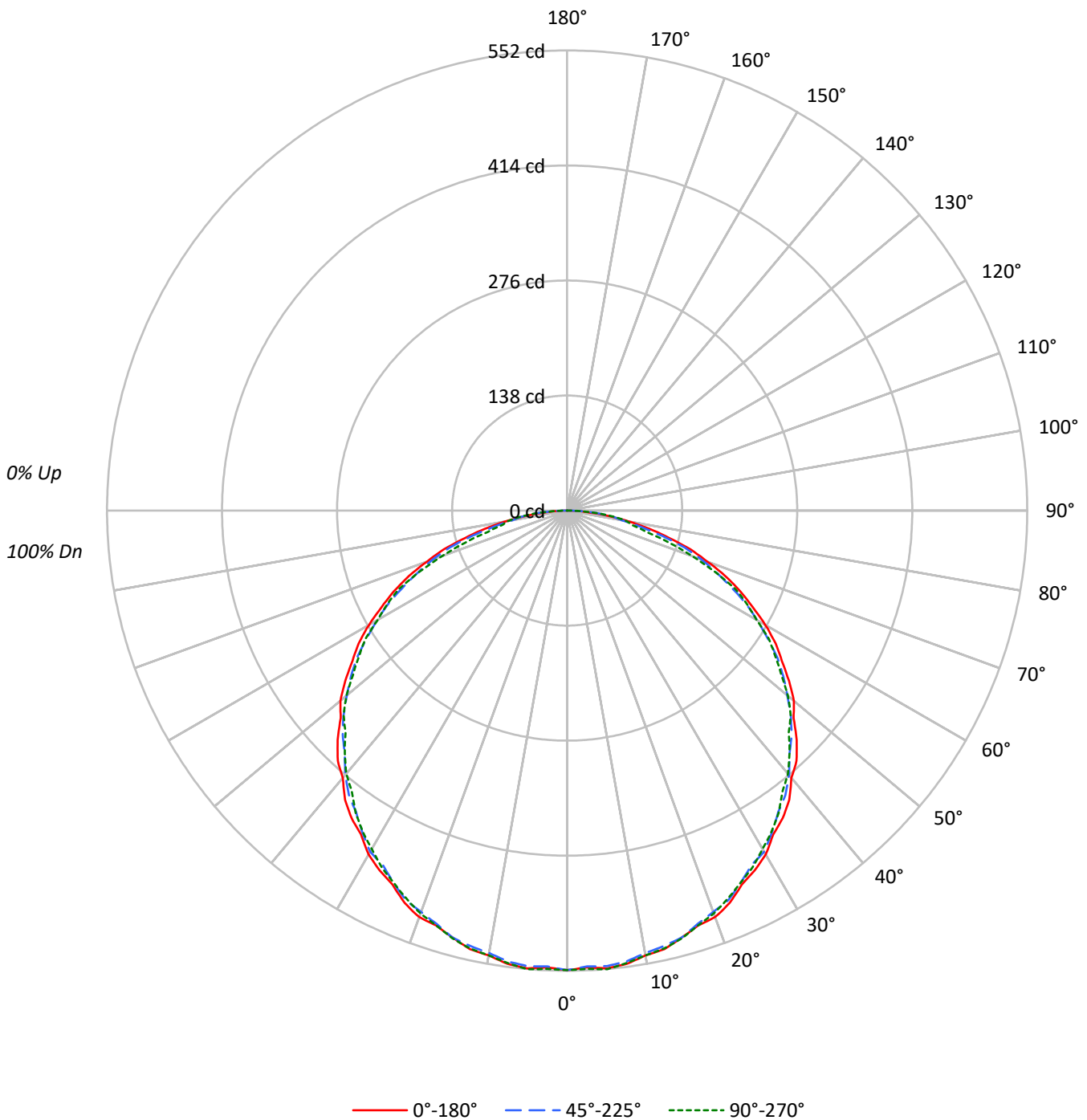
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1483	1483	1483
5°	1489	1481	1492
10°	1480	1473	1480
15°	1478	1478	1480
20°	1486	1467	1473
25°	1471	1462	1462
30°	1480	1468	1457
35°	1481	1450	1453
40°	1470	1454	1447
45°	1482	1449	1431
50°	1487	1443	1447
55°	1475	1444	1431
60°	1478	1417	1412
65°	1459	1381	1417
70°	1408	1349	1260
75°	1319	1231	1024
80°	1159	1027	1116
85°	849	1112	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	3.1
10°-20°	149.7	9.0
20°-30°	228.0	13.7
30°-40°	278.0	16.8
40°-50°	294.8	17.8
50°-60°	275.7	16.6
60°-70°	218.1	13.2
70°-80°	123.8	7.5
80°-90°	37.6	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°	429.9	25.9
0°-40°	707.9	42.7
0°-60°	1278.4	77.1
0°-90°	1657.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1657.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	551	551	551	551	551	
5°	551	549	548	548	552	52
15°	530	529	530	527	531	150
25°	495	496	492	496	492	230
35°	451	448	441	443	442	281
45°	389	384	381	377	376	300
55°	314	312	308	304	305	282
65°	229	225	217	219	223	226
75°	127	124	118	105	98	135
85°	28	30	36	36	36	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551.2	551.2	551.2	551.2	551.2
2.5°	548.4	553.1	547.4	555.0	550.3
5°	551.2	549.3	548.4	548.4	552.2
7.5°	548.4	545.5	545.5	543.6	547.4
10°	541.8	545.5	538.9	546.5	541.8
12.5°	538.9	536.1	535.1	535.1	538.0
15°	530.4	529.4	530.4	526.6	531.3
17.5°	521.9	526.6	520.0	526.6	521.9
20°	519.0	516.2	512.4	514.3	514.3
22.5°	509.5	503.9	505.8	502.0	503.9
25°	495.3	496.3	492.5	496.3	492.5
27.5°	486.8	485.9	479.2	482.1	482.1
30°	476.4	471.7	472.6	466.0	468.8
32.5°	460.3	460.3	457.5	457.5	456.5
35°	450.8	448.0	441.4	443.3	442.3
37.5°	437.6	430.9	430.0	424.3	424.3
40°	418.6	417.7	413.9	411.0	412.0
42.5°	407.3	403.5	394.9	396.8	394.9
45°	389.3	384.5	380.7	377.0	376.0
47.5°	368.4	368.4	363.7	360.9	363.7
50°	355.2	352.3	344.8	344.8	345.7
52.5°	335.3	331.5	326.8	323.9	323.9
55°	314.4	312.5	307.8	304.0	305.0
57.5°	296.4	292.7	285.1	285.1	287.0
60°	274.7	270.9	263.3	262.4	262.4
62.5°	251.0	249.1	241.5	240.6	243.4
65°	229.2	225.4	216.9	218.8	222.6
67.5°	205.5	199.8	193.2	195.1	191.3
70°	179.0	176.2	171.4	164.8	160.1
72.5°	155.3	150.6	147.8	134.5	128.8
75°	126.9	124.1	118.4	105.1	98.5
77.5°	101.3	99.4	90.0	78.6	79.6
80°	74.8	77.7	66.3	69.1	72.0
82.5°	50.2	51.1	54.0	56.8	56.8
85°	27.5	30.3	36.0	36.0	36.0
87.5°	11.4	14.2	16.1	16.1	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)