

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: P392977

Luminaire Tested: **14EN-LD2-18-UNV-L83050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392977
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-L83050-W2A-1-U (6500K)
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1783.5 lumens
Efficiency: N/A
Efficacy: 103.7 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

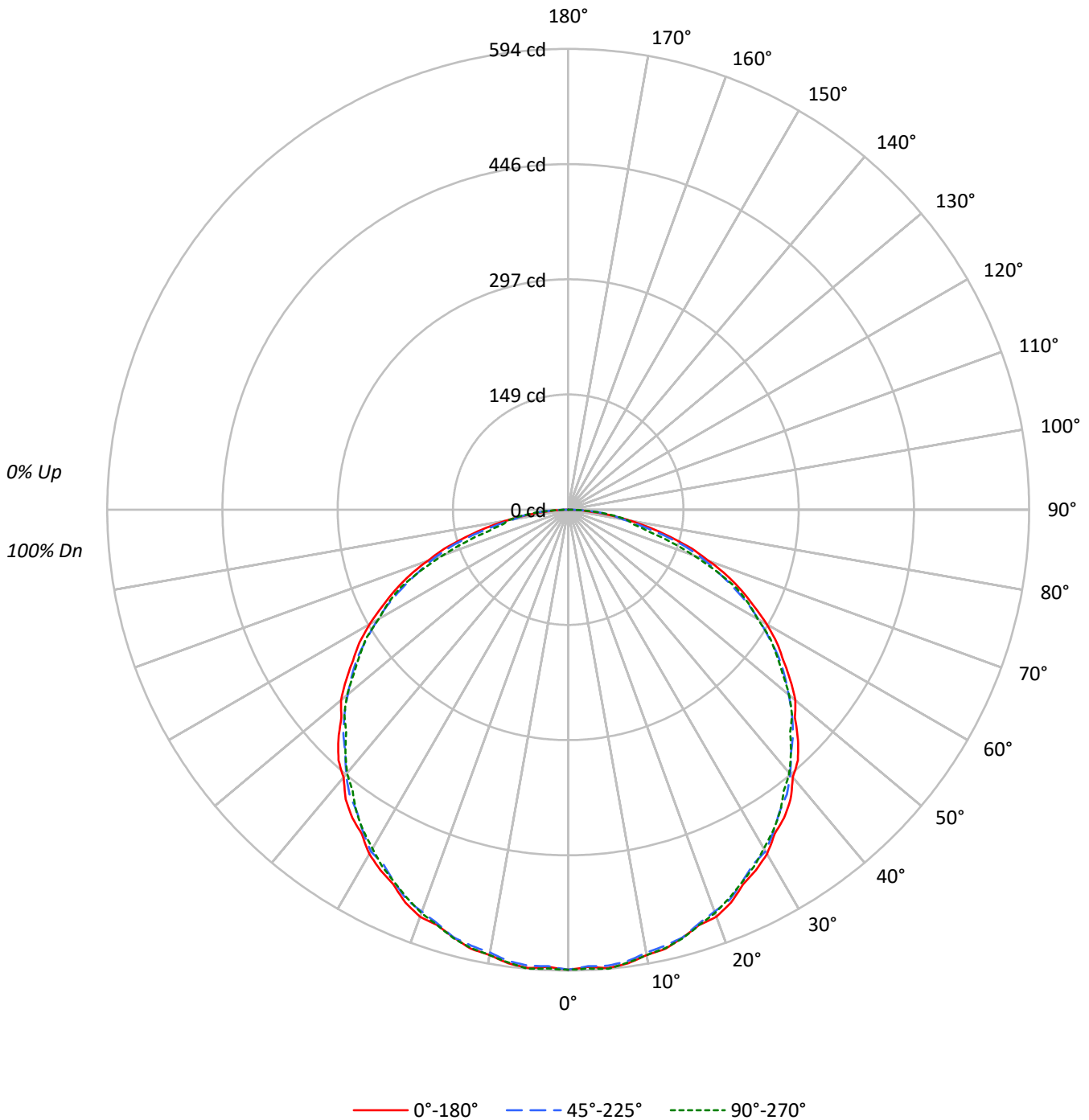
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1596	1596	1596
5°	1602	1593	1605
10°	1592	1584	1592
15°	1590	1590	1592
20°	1599	1578	1584
25°	1582	1573	1573
30°	1592	1580	1567
35°	1593	1560	1563
40°	1582	1564	1557
45°	1594	1559	1539
50°	1600	1553	1557
55°	1587	1553	1539
60°	1590	1524	1519
65°	1570	1486	1524
70°	1515	1451	1355
75°	1419	1325	1102
80°	1247	1105	1199
85°	911	1195	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	3.1
10°-20°	161.1	9.0
20°-30°	245.2	13.7
30°-40°	299.1	16.8
40°-50°	317.1	17.8
50°-60°	296.6	16.6
60°-70°	234.6	13.2
70°-80°	133.2	7.5
80°-90°	40.4	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°	462.5	25.9
0°-40°	761.6	42.7
0°-60°	1375.3	77.1
0°-90°	1783.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1783.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	593	591	590	590	594	56
15°	571	570	571	566	572	161
25°	533	534	530	534	530	247
35°	485	482	475	477	476	303
45°	419	414	410	406	404	322
55°	338	336	331	327	328	304
65°	247	242	233	235	239	243
75°	136	134	127	113	106	145
85°	30	33	39	39	39	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	593.0	593.0	593.0	593.0	593.0
2.5°	589.9	595.0	588.9	597.1	592.0
5°	593.0	590.9	589.9	589.9	594.0
7.5°	589.9	586.9	586.9	584.8	588.9
10°	582.8	586.9	579.7	587.9	582.8
12.5°	579.7	576.7	575.7	575.7	578.7
15°	570.6	569.5	570.6	566.5	571.6
17.5°	561.4	566.5	559.4	566.5	561.4
20°	558.3	555.3	551.2	553.2	553.2
22.5°	548.2	542.0	544.1	540.0	542.0
25°	532.9	533.9	529.8	533.9	529.8
27.5°	523.7	522.7	515.5	518.6	518.6
30°	512.5	507.4	508.4	501.3	504.3
32.5°	495.2	495.2	492.1	492.1	491.1
35°	485.0	481.9	474.8	476.8	475.8
37.5°	470.7	463.6	462.6	456.5	456.5
40°	450.3	449.3	445.2	442.2	443.2
42.5°	438.1	434.0	424.9	426.9	424.9
45°	418.8	413.7	409.6	405.5	404.5
47.5°	396.3	396.3	391.2	388.2	391.2
50°	382.1	379.0	370.9	370.9	371.9
52.5°	360.7	356.6	351.5	348.5	348.5
55°	338.3	336.2	331.1	327.1	328.1
57.5°	318.9	314.8	306.7	306.7	308.7
60°	295.5	291.4	283.2	282.2	282.2
62.5°	270.0	268.0	259.8	258.8	261.8
65°	246.6	242.5	233.3	235.4	239.4
67.5°	221.1	215.0	207.8	209.9	205.8
70°	192.6	189.5	184.4	177.3	172.2
72.5°	167.1	162.0	158.9	144.7	138.6
75°	136.5	133.5	127.4	113.1	106.0
77.5°	109.0	107.0	96.8	84.6	85.6
80°	80.5	83.5	71.3	74.4	77.4
82.5°	54.0	55.0	58.1	61.1	61.1
85°	29.5	32.6	38.7	38.7	38.7
87.5°	12.2	15.3	17.3	17.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)