

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: P392973

Luminaire Tested: **14EN-LD2-18-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392973
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 (4000K)
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1757.9 lumens
Efficiency: N/A
Efficacy: 101.0 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

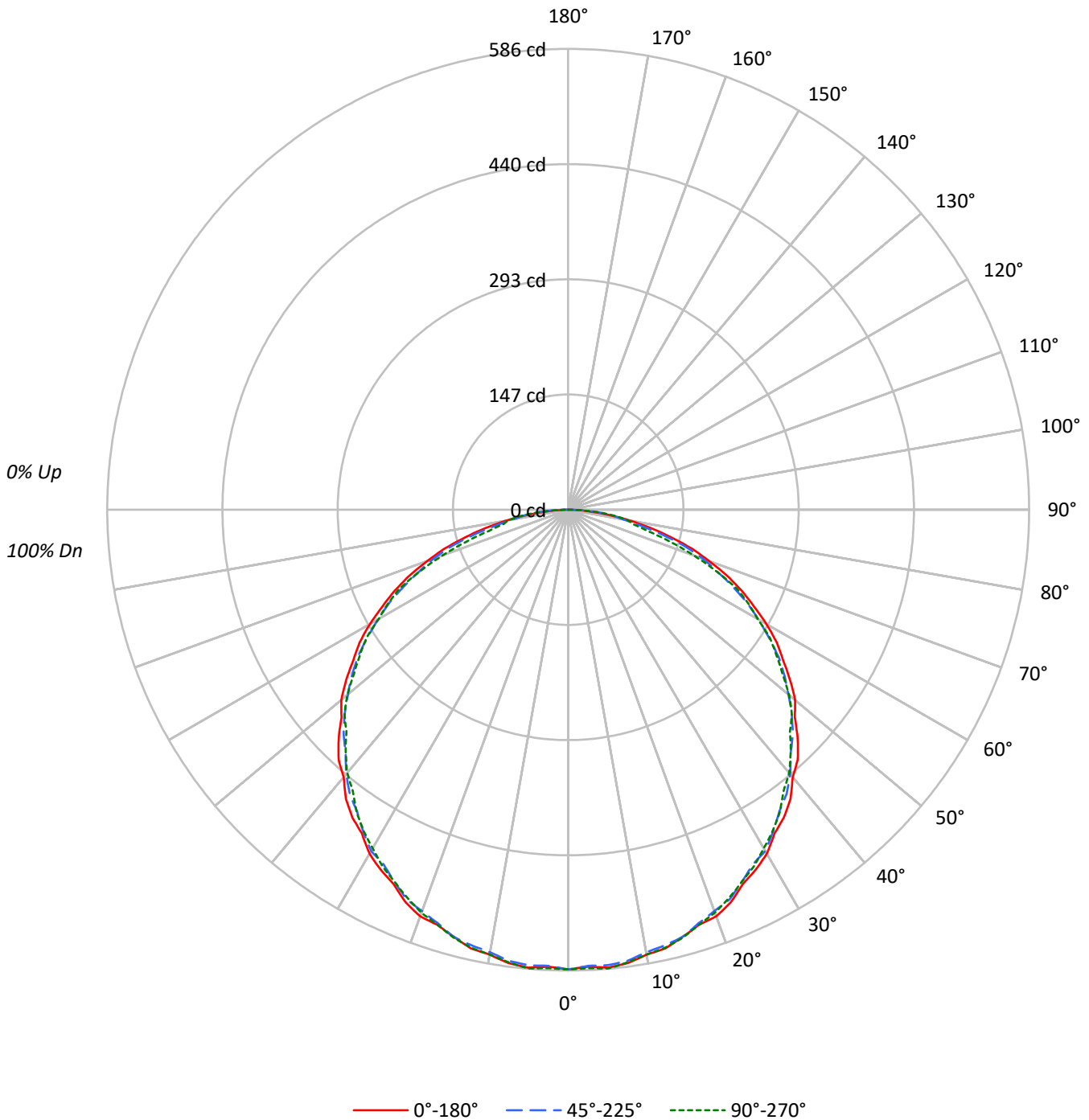
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P392973

CATALOG NUMBER: 14EN-LD2-18-UNV-L83050-W2A-1-U (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P392973

CATALOG NUMBER: 14EN-LD2-18-UNV-L83050-W2A-1-U (4000K)

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°	1573	1573	1573
5°	1579	1571	1582
10°	1570	1561	1570
15°	1567	1567	1570
20°	1576	1556	1562
25°	1559	1550	1550
30°	1569	1557	1545
35°	1570	1537	1541
40°	1559	1542	1535
45°	1571	1536	1517
50°	1577	1530	1535
55°	1564	1531	1517
60°	1567	1503	1497
65°	1547	1465	1503
70°	1493	1430	1335
75°	1399	1305	1085
80°	1229	1089	1182
85°	898	1179	1179



TEST NUMBER: P392973

CATALOG NUMBER: 14EN-LD2-18-UNV-L83050-W2A-1-U (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	3.1
10°-20°	158.8	9.0
20°-30°	241.7	13.7
30°-40°	294.8	16.8
40°-50°	312.6	17.8
50°-60°	292.3	16.6
60°-70°	231.3	13.2
70°-80°	131.2	7.5
80°-90°	39.8	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°	455.8	25.9
0°-40°	750.6	42.7
0°-60°	1355.6	77.1
0°-90°	1757.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1757.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	584	582	582	582	586	55
15°	562	561	562	558	563	159
25°	525	526	522	526	522	243
35°	478	475	468	470	469	298
45°	413	408	404	400	399	318
55°	333	331	326	322	323	299
65°	243	239	230	232	236	239
75°	135	132	126	112	104	143
85°	29	32	38	38	38	36
90°	0	0	0	0	0	



TEST NUMBER: P392973

CATALOG NUMBER: 14EN-LD2-18-UNV-L83050-W2A-1-U (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	584.5	584.5	584.5	584.5	584.5
2.5°	581.5	586.5	580.5	588.5	583.5
5°	584.5	582.5	581.5	581.5	585.5
7.5°	581.5	578.5	578.5	576.4	580.5
10°	574.4	578.5	571.4	579.5	574.4
12.5°	571.4	568.4	567.4	567.4	570.4
15°	562.4	561.4	562.4	558.4	563.4
17.5°	553.3	558.4	551.3	558.4	553.3
20°	550.3	547.3	543.3	545.3	545.3
22.5°	540.3	534.3	536.3	532.3	534.3
25°	525.2	526.2	522.2	526.2	522.2
27.5°	516.2	515.2	508.2	511.2	511.2
30°	505.1	500.1	501.1	494.1	497.1
32.5°	488.1	488.1	485.1	485.1	484.1
35°	478.0	475.0	468.0	470.0	469.0
37.5°	464.0	456.9	455.9	449.9	449.9
40°	443.9	442.9	438.9	435.8	436.9
42.5°	431.8	427.8	418.8	420.8	418.8
45°	412.7	407.7	403.7	399.7	398.7
47.5°	390.7	390.7	385.6	382.6	385.6
50°	376.6	373.6	365.5	365.5	366.6
52.5°	355.5	351.5	346.5	343.5	343.5
55°	333.4	331.4	326.4	322.4	323.4
57.5°	314.3	310.3	302.3	302.3	304.3
60°	291.2	287.2	279.2	278.2	278.2
62.5°	266.1	264.1	256.1	255.1	258.1
65°	243.0	239.0	230.0	232.0	236.0
67.5°	217.9	211.9	204.9	206.9	202.9
70°	189.8	186.8	181.8	174.7	169.7
72.5°	164.7	159.7	156.7	142.6	136.6
75°	134.6	131.6	125.5	111.5	104.4
77.5°	107.5	105.4	95.4	83.4	84.4
80°	79.3	82.3	70.3	73.3	76.3
82.5°	53.2	54.2	57.2	60.3	60.3
85°	29.1	32.1	38.2	38.2	38.2
87.5°	12.1	15.1	17.1	17.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)