

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: P392972

Luminaire Tested: **14EN-LD2-18-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392972
Test Lab: INNOVATION CENTER (G3)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-18-UNV-L83050-W2A-1-U (3500K)
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: 1750.4 lumens
Efficiency: N/A
Efficacy: 100.0 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

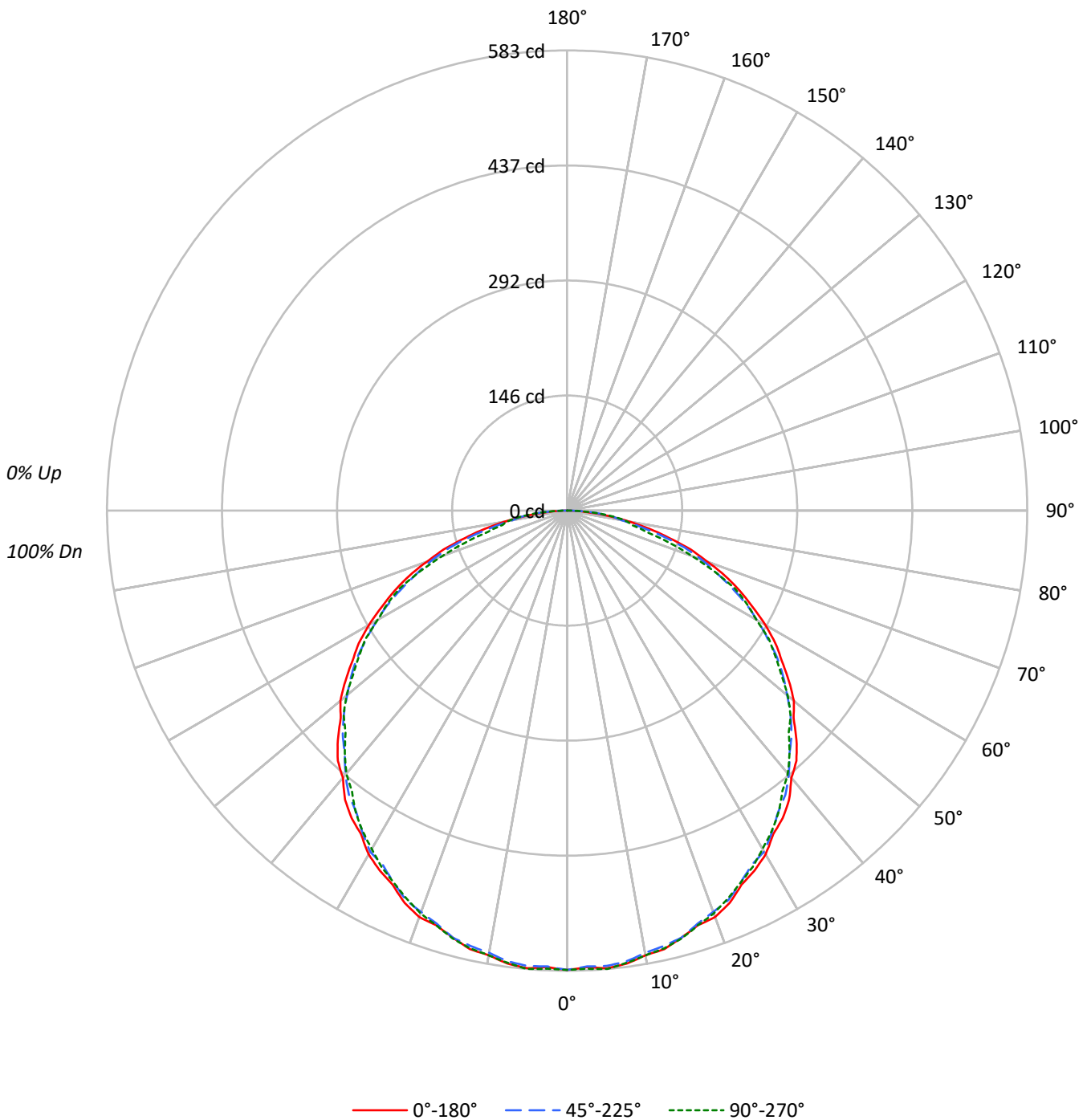
Input Watts (W): 17.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1566	1566	1566
5°	1572	1564	1575
10°	1563	1555	1563
15°	1560	1560	1563
20°	1569	1549	1555
25°	1553	1544	1544
30°	1563	1551	1538
35°	1564	1531	1534
40°	1553	1535	1528
45°	1564	1530	1511
50°	1570	1524	1528
55°	1558	1525	1511
60°	1561	1496	1491
65°	1541	1458	1496
70°	1487	1424	1330
75°	1393	1300	1081
80°	1224	1085	1178
85°	895	1173	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	3.1
10°-20°	158.1	9.0
20°-30°	240.7	13.7
30°-40°	293.6	16.8
40°-50°	311.3	17.8
50°-60°	291.1	16.6
60°-70°	230.3	13.2
70°-80°	130.7	7.5
80°-90°	39.7	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°	453.9	25.9
0°-40°	747.5	42.7
0°-60°	1349.8	77.1
0°-90°	1750.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1750.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	582	580	579	579	583	55
15°	560	559	560	556	561	158
25°	523	524	520	524	520	242
35°	476	473	466	468	467	297
45°	411	406	402	398	397	316
55°	332	330	325	321	322	298
65°	242	238	229	231	235	238
75°	134	131	125	111	104	142
85°	29	32	38	38	38	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	582	582	582	582	582
2.5°	579	584	578	586	581
5°	582	580	579	579	583
7.5°	579	576	576	574	578
10°	572	576	569	577	572
12.5°	569	566	565	565	568
15°	560	559	560	556	561
17.5°	551	556	549	556	551
20°	548	545	541	543	543
22.5°	538	532	534	530	532
25°	523	524	520	524	520
27.5°	514	513	506	509	509
30°	503	498	499	492	495
32.5°	486	486	483	483	482
35°	476	473	466	468	467
37.5°	462	455	454	448	448
40°	442	441	437	434	435
42.5°	430	426	417	419	417
45°	411	406	402	398	397
47.5°	389	389	384	381	384
50°	375	372	364	364	365
52.5°	354	350	345	342	342
55°	332	330	325	321	322
57.5°	313	309	301	301	303
60°	290	286	278	277	277
62.5°	265	263	255	254	257
65°	242	238	229	231	235
67.5°	217	211	204	206	202
70°	189	186	181	174	169
72.5°	164	159	156	142	136
75°	134	131	125	111	104
77.5°	107	105	95	83	84
80°	79	82	70	73	76
82.5°	53	54	57	60	60
85°	29	32	38	38	38
87.5°	12	15	17	17	16
90°	0	0	0	0	0

(END OF REPORT)