

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: P392970

Luminaire Tested: **14EN-LD2-18-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392970
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 (2700K)
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: 1688.9 lumens
Efficiency: N/A
Efficacy: 98.8 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

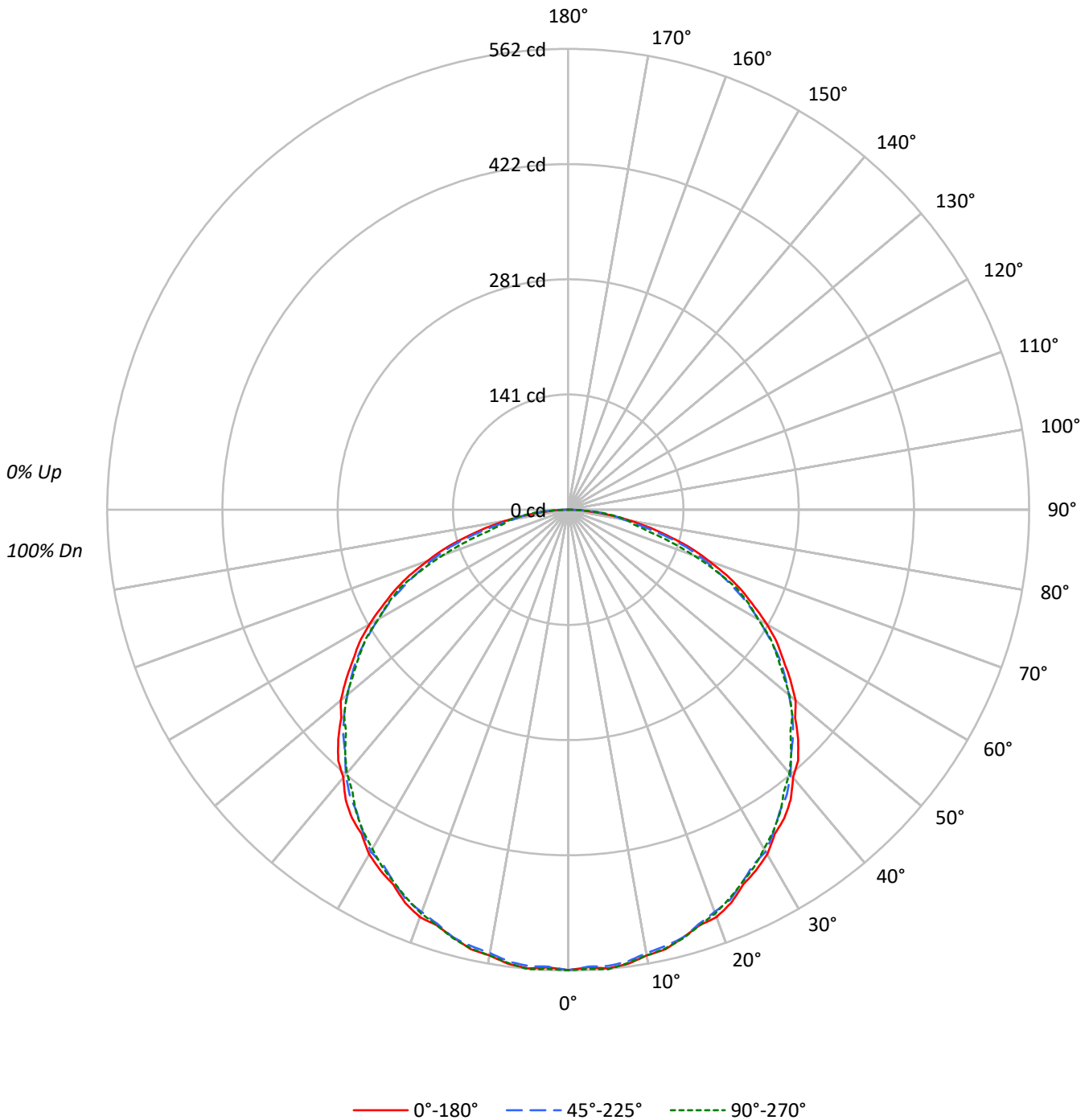
Input Watts (W): 17.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1511	1511	1511
5°	1517	1509	1519
10°	1508	1500	1508
15°	1505	1505	1508
20°	1514	1495	1500
25°	1498	1490	1490
30°	1508	1496	1484
35°	1509	1477	1480
40°	1498	1481	1474
45°	1509	1476	1458
50°	1515	1470	1474
55°	1503	1471	1458
60°	1506	1443	1439
65°	1487	1407	1443
70°	1435	1374	1283
75°	1344	1254	1043
80°	1181	1046	1136
85°	865	1133	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	3.1
10°-20°	152.5	9.0
20°-30°	232.2	13.7
30°-40°	283.2	16.8
40°-50°	300.3	17.8
50°-60°	280.8	16.6
60°-70°	222.2	13.2
70°-80°	126.1	7.5
80°-90°	38.3	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°	437.9	25.9
0°-40°	721.2	42.7
0°-60°	1302.3	77.1
0°-90°	1688.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1688.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	562	560	559	559	562	53
15°	540	539	540	536	541	153
25°	505	506	502	506	502	234
35°	459	456	450	452	451	287
45°	396	392	388	384	383	305
55°	320	318	314	310	311	287
65°	234	230	221	223	227	230
75°	129	126	121	107	100	137
85°	28	31	37	37	37	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.5	561.5	561.5	561.5	561.5
2.5°	558.6	563.5	557.7	565.4	560.6
5°	561.5	559.6	558.6	558.6	562.5
7.5°	558.6	555.7	555.7	553.8	557.7
10°	551.9	555.7	549.0	556.7	551.9
12.5°	549.0	546.1	545.1	545.1	548.0
15°	540.3	539.3	540.3	536.4	541.3
17.5°	531.6	536.4	529.7	536.4	531.6
20°	528.7	525.8	522.0	523.9	523.9
22.5°	519.1	513.3	515.2	511.4	513.3
25°	504.6	505.6	501.7	505.6	501.7
27.5°	495.9	495.0	488.2	491.1	491.1
30°	485.3	480.5	481.4	474.7	477.6
32.5°	468.9	468.9	466.0	466.0	465.0
35°	459.3	456.4	449.6	451.5	450.6
37.5°	445.7	439.0	438.0	432.2	432.2
40°	426.5	425.5	421.6	418.7	419.7
42.5°	414.9	411.0	402.3	404.3	402.3
45°	396.5	391.7	387.9	384.0	383.0
47.5°	375.3	375.3	370.5	367.6	370.5
50°	361.8	358.9	351.2	351.2	352.2
52.5°	341.5	337.7	332.9	330.0	330.0
55°	320.3	318.4	313.6	309.7	310.7
57.5°	302.0	298.1	290.4	290.4	292.3
60°	279.8	275.9	268.2	267.3	267.3
62.5°	255.7	253.7	246.0	245.1	248.0
65°	233.5	229.6	220.9	222.9	226.7
67.5°	209.4	203.6	196.8	198.8	194.9
70°	182.4	179.5	174.6	167.9	163.1
72.5°	158.2	153.4	150.5	137.0	131.2
75°	129.3	126.4	120.6	107.1	100.3
77.5°	103.2	101.3	91.7	80.1	81.0
80°	76.2	79.1	67.5	70.4	73.3
82.5°	51.1	52.1	55.0	57.9	57.9
85°	28.0	30.9	36.7	36.7	36.7
87.5°	11.6	14.5	16.4	16.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)