

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: P392966

Luminaire Tested: **14EN-LD2-18-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392966
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 (4500K)
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: 1683.6 lumens
Efficiency: N/A
Efficacy: 97.9 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

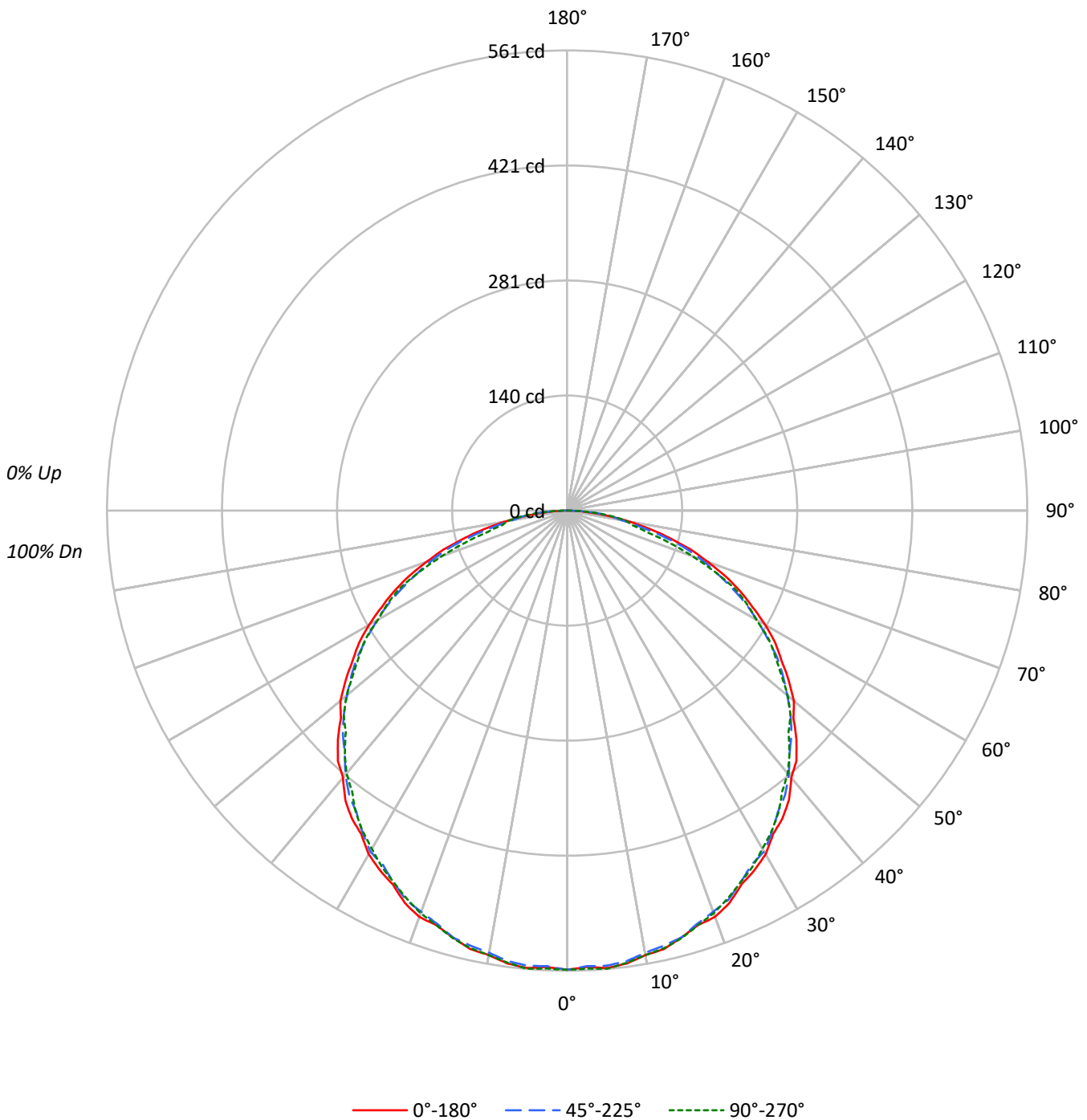
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1506	1506	1506
5°	1512	1504	1515
10°	1503	1495	1503
15°	1500	1500	1503
20°	1509	1490	1496
25°	1493	1485	1485
30°	1503	1491	1479
35°	1504	1472	1476
40°	1493	1476	1470
45°	1504	1472	1453
50°	1510	1466	1470
55°	1498	1467	1453
60°	1501	1439	1434
65°	1482	1403	1439
70°	1430	1370	1279
75°	1340	1250	1040
80°	1178	1043	1133
85°	861	1127	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	3.1
10°-20°	152.1	9.0
20°-30°	231.5	13.8
30°-40°	282.4	16.8
40°-50°	299.4	17.8
50°-60°	280.0	16.6
60°-70°	221.5	13.2
70°-80°	125.7	7.5
80°-90°	38.1	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°	436.6	25.9
0°-40°	718.9	42.7
0°-60°	1298.3	77.1
0°-90°	1683.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	560	558	557	557	561	53
15°	539	538	539	535	540	152
25°	503	504	500	504	500	233
35°	458	455	448	450	449	286
45°	395	390	387	383	382	304
55°	319	317	313	309	310	287
65°	233	229	220	222	226	229
75°	129	126	120	107	100	137
85°	28	31	36	36	36	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.8	559.8	559.8	559.8	559.8
2.5°	556.9	561.7	555.9	563.6	558.8
5°	559.8	557.9	556.9	556.9	560.7
7.5°	556.9	554.0	554.0	552.1	555.9
10°	550.2	554.0	547.3	555.0	550.2
12.5°	547.3	544.4	543.4	543.4	546.3
15°	538.6	537.7	538.6	534.8	539.6
17.5°	530.0	534.8	528.0	534.8	530.0
20°	527.1	524.2	520.4	522.3	522.3
22.5°	517.5	511.7	513.6	509.8	511.7
25°	503.0	504.0	500.2	504.0	500.2
27.5°	494.4	493.4	486.7	489.6	489.6
30°	483.8	479.0	480.0	473.2	476.1
32.5°	467.5	467.5	464.6	464.6	463.6
35°	457.8	454.9	448.2	450.1	449.2
37.5°	444.4	437.6	436.7	430.9	430.9
40°	425.1	424.2	420.3	417.4	418.4
42.5°	413.6	409.7	401.1	403.0	401.1
45°	395.3	390.5	386.7	382.8	381.8
47.5°	374.2	374.2	369.3	366.5	369.3
50°	360.7	357.8	350.1	350.1	351.1
52.5°	340.5	336.6	331.8	328.9	328.9
55°	319.3	317.4	312.6	308.7	309.7
57.5°	301.1	297.2	289.5	289.5	291.4
60°	278.9	275.1	267.4	266.4	266.4
62.5°	254.9	253.0	245.3	244.3	247.2
65°	232.8	228.9	220.3	222.2	226.0
67.5°	208.7	202.9	196.2	198.1	194.3
70°	181.8	178.9	174.1	167.4	162.5
72.5°	157.7	152.9	150.0	136.6	130.8
75°	128.9	126.0	120.2	106.8	100.0
77.5°	102.9	101.0	91.4	79.8	80.8
80°	76.0	78.9	67.3	70.2	73.1
82.5°	51.0	51.9	54.8	57.7	57.7
85°	27.9	30.8	36.5	36.5	36.5
87.5°	11.5	14.4	16.4	16.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)