

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: P392968

Luminaire Tested: **14EN-LD2-18-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392968
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 (5700K)
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1687.1 lumens
Efficiency: N/A
Efficacy: 98.7 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

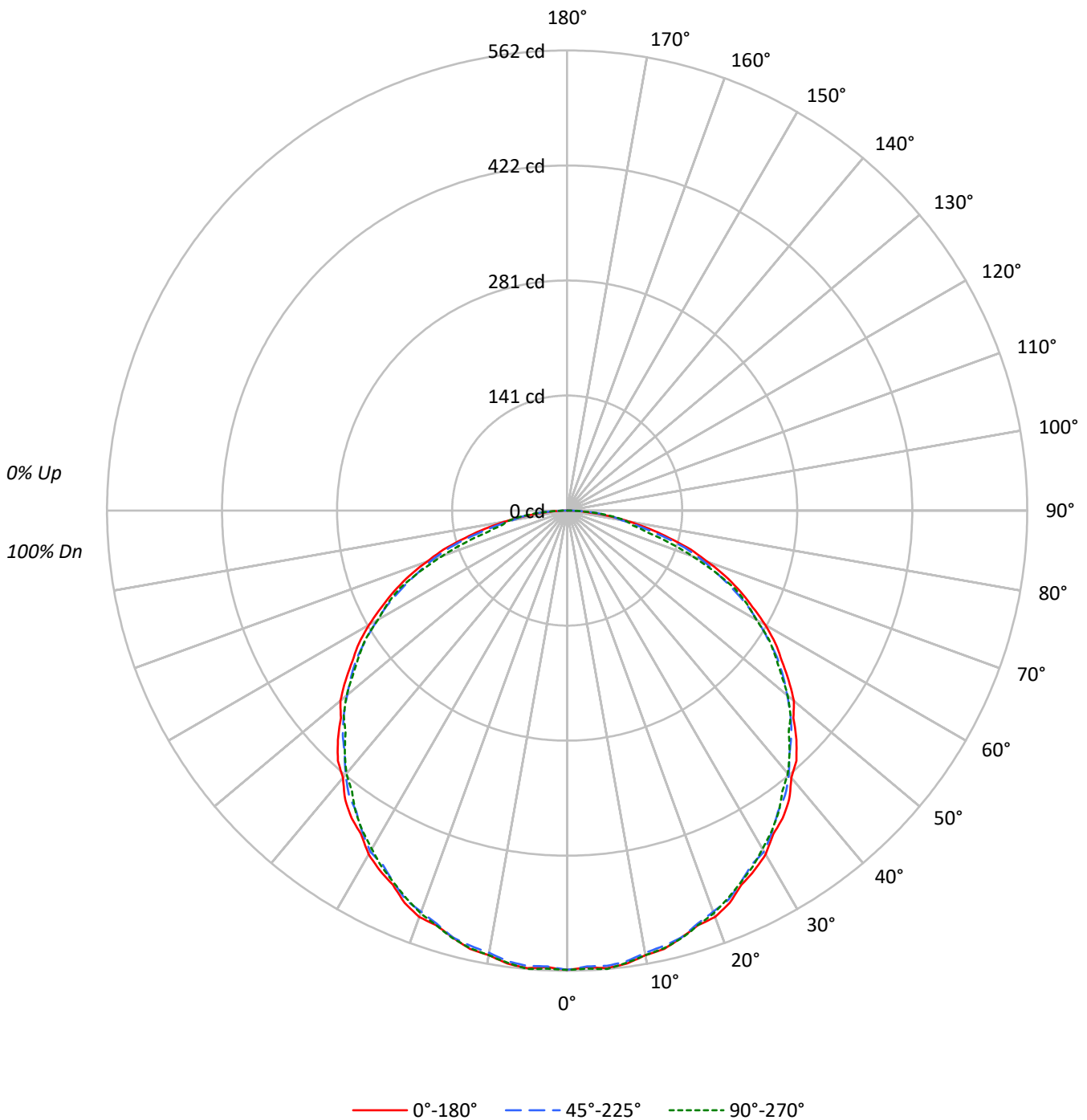
Input Watts (W): 17.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1509	1509	1509
5°	1515	1508	1518
10°	1506	1498	1506
15°	1504	1504	1506
20°	1513	1493	1499
25°	1497	1488	1488
30°	1506	1494	1482
35°	1507	1475	1479
40°	1496	1480	1473
45°	1507	1475	1456
50°	1513	1469	1473
55°	1501	1469	1456
60°	1504	1442	1437
65°	1485	1405	1442
70°	1434	1373	1282
75°	1343	1253	1042
80°	1179	1046	1136
85°	865	1130	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	3.1
10°-20°	152.4	9.0
20°-30°	232.0	13.7
30°-40°	282.9	16.8
40°-50°	300.0	17.8
50°-60°	280.5	16.6
60°-70°	222.0	13.2
70°-80°	126.0	7.5
80°-90°	38.2	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°	437.5	25.9
0°-40°	720.4	42.7
0°-60°	1300.9	77.1
0°-90°	1687.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1687.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	561	561	561	561	561	
5°	561	559	558	558	562	53
15°	540	539	540	536	541	153
25°	504	505	501	505	501	234
35°	459	456	449	451	450	286
45°	396	391	388	384	383	305
55°	320	318	313	309	310	287
65°	233	229	221	223	226	230
75°	129	126	120	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°	560.9	560.9	560.9	560.9	560.9
2.5°	558.1	562.9	557.1	564.8	560.0
5°	560.9	559.0	558.1	558.1	561.9
7.5°	558.1	555.2	555.2	553.2	557.1
10°	551.3	555.2	548.4	556.1	551.3
12.5°	548.4	545.5	544.6	544.6	547.4
15°	539.7	538.8	539.7	535.9	540.7
17.5°	531.1	535.9	529.1	535.9	531.1
20°	528.2	525.3	521.4	523.4	523.4
22.5°	518.5	512.8	514.7	510.8	512.8
25°	504.1	505.0	501.2	505.0	501.2
27.5°	495.4	494.4	487.7	490.6	490.6
30°	484.8	480.0	480.9	474.2	477.1
32.5°	468.4	468.4	465.5	465.5	464.6
35°	458.8	455.9	449.1	451.1	450.1
37.5°	445.3	438.5	437.6	431.8	431.8
40°	426.0	425.0	421.2	418.3	419.3
42.5°	414.4	410.6	401.9	403.8	401.9
45°	396.1	391.3	387.5	383.6	382.6
47.5°	374.9	374.9	370.1	367.2	370.1
50°	361.4	358.5	350.8	350.8	351.8
52.5°	341.2	337.3	332.5	329.6	329.6
55°	320.0	318.1	313.2	309.4	310.3
57.5°	301.7	297.8	290.1	290.1	292.0
60°	279.5	275.7	267.9	267.0	267.0
62.5°	255.4	253.5	245.8	244.8	247.7
65°	233.2	229.4	220.7	222.6	226.5
67.5°	209.1	203.4	196.6	198.5	194.7
70°	182.2	179.3	174.5	167.7	162.9
72.5°	158.1	153.2	150.4	136.9	131.1
75°	129.2	126.3	120.5	107.0	100.2
77.5°	103.1	101.2	91.6	80.0	81.0
80°	76.1	79.0	67.5	70.4	73.3
82.5°	51.1	52.0	54.9	57.8	57.8
85°	28.0	30.8	36.6	36.6	36.6
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)