

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: P392967

Luminaire Tested: **14EN-LD2-18-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392967
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 (5000K)
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: 1680.9 lumens
Efficiency: N/A
Efficacy: 97.7 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

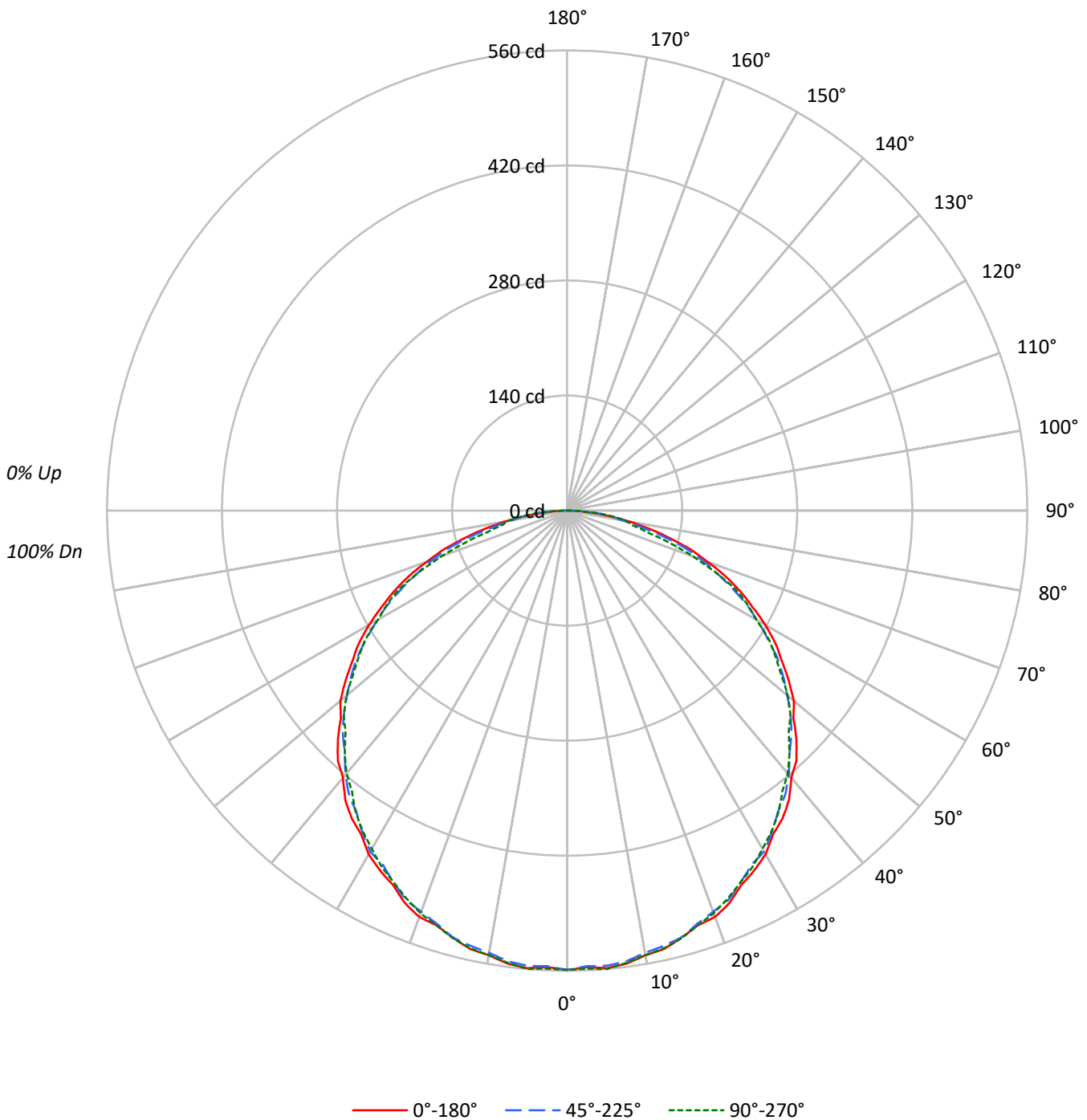
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1504	1504	1504
5°	1510	1502	1512
10°	1501	1493	1501
15°	1498	1498	1501
20°	1507	1488	1493
25°	1491	1483	1483
30°	1501	1489	1477
35°	1502	1470	1473
40°	1491	1474	1467
45°	1502	1469	1451
50°	1508	1463	1467
55°	1496	1464	1451
60°	1499	1437	1432
65°	1480	1400	1437
70°	1428	1367	1277
75°	1338	1248	1039
80°	1176	1041	1131
85°	858	1127	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	3.1
10°-20°	151.8	9.0
20°-30°	231.1	13.7
30°-40°	281.9	16.8
40°-50°	298.9	17.8
50°-60°	279.5	16.6
60°-70°	221.1	13.2
70°-80°	125.5	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°	435.9	25.9
0°-40°	717.8	42.7
0°-60°	1296.2	77.1
0°-90°	1680.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1680.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	559	557	556	556	560	53
15°	538	537	538	534	539	152
25°	502	503	499	503	499	233
35°	457	454	448	449	448	285
45°	395	390	386	382	381	304
55°	319	317	312	308	309	286
65°	232	228	220	222	226	229
75°	129	126	120	107	100	136
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°	558.9	558.9	558.9	558.9	558.9
2.5°	556.0	560.8	555.0	562.7	557.9
5°	558.9	557.0	556.0	556.0	559.8
7.5°	556.0	553.1	553.1	551.2	555.0
10°	549.3	553.1	546.4	554.1	549.3
12.5°	546.4	543.5	542.6	542.6	545.4
15°	537.8	536.8	537.8	533.9	538.7
17.5°	529.1	533.9	527.2	533.9	529.1
20°	526.2	523.3	519.5	521.4	521.4
22.5°	516.6	510.9	512.8	508.9	510.9
25°	502.2	503.2	499.3	503.2	499.3
27.5°	493.6	492.6	485.9	488.8	488.8
30°	483.0	478.2	479.2	472.5	475.3
32.5°	466.7	466.7	463.8	463.8	462.9
35°	457.1	454.2	447.5	449.4	448.4
37.5°	443.6	436.9	436.0	430.2	430.2
40°	424.4	423.5	419.6	416.8	417.7
42.5°	412.9	409.1	400.4	402.4	400.4
45°	394.7	389.9	386.0	382.2	381.2
47.5°	373.5	373.5	368.7	365.9	368.7
50°	360.1	357.2	349.5	349.5	350.5
52.5°	339.9	336.1	331.3	328.4	328.4
55°	318.8	316.9	312.1	308.2	309.2
57.5°	300.6	296.7	289.0	289.0	291.0
60°	278.5	274.6	267.0	266.0	266.0
62.5°	254.5	252.6	244.9	243.9	246.8
65°	232.4	228.5	219.9	221.8	225.7
67.5°	208.4	202.6	195.9	197.8	194.0
70°	181.5	178.6	173.8	167.1	162.3
72.5°	157.5	152.7	149.8	136.4	130.6
75°	128.7	125.8	120.0	106.6	99.9
77.5°	102.7	100.8	91.2	79.7	80.7
80°	75.9	78.7	67.2	70.1	73.0
82.5°	50.9	51.9	54.7	57.6	57.6
85°	27.8	30.7	36.5	36.5	36.5
87.5°	11.5	14.4	16.3	16.3	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)