

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: P393155

Luminaire Tested: **14EN-LD2-47-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-55)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-47-UNV-L82765-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 4700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4327.3 lumens
Efficiency: N/A
Efficacy: 92.3 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

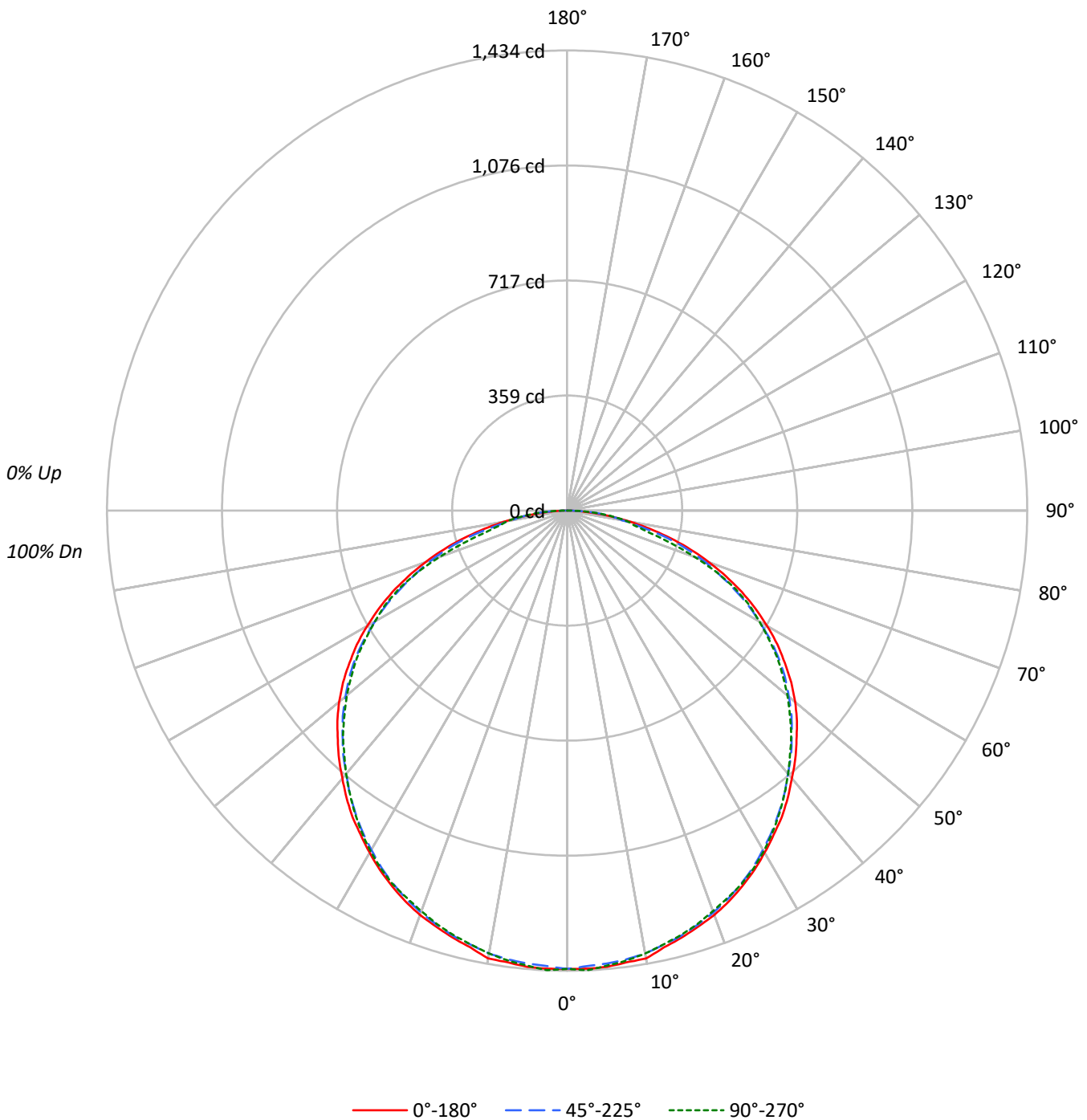
Input Watts (W): 46.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
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°	3843	3843	3843
5°	3855	3828	3845
10°	3872	3830	3830
15°	3838	3823	3815
20°	3840	3816	3803
25°	3834	3810	3815
30°	3825	3793	3808
35°	3830	3778	3787
40°	3828	3760	3763
45°	3847	3766	3759
50°	3882	3774	3751
55°	3886	3782	3752
60°	3875	3722	3722
65°	3826	3633	3685
70°	3695	3529	3334
75°	3481	3262	2737
80°	3084	2701	2927
85°	2266	2918	2918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.1
10°-20°	387.9	9.0
20°-30°	592.9	13.7
30°-40°	722.7	16.7
40°-50°	768.0	17.7
50°-60°	722.5	16.7
60°-70°	573.5	13.3
70°-80°	326.1	7.5
80°-90°	98.5	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°	1116.0	25.8
0°-40°	1838.7	42.5
0°-60°	3329.1	76.9
0°-90°	4327.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4327.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1427	1425	1417	1419	1424	136
15°	1378	1377	1372	1370	1369	389
25°	1291	1289	1283	1286	1285	595
35°	1166	1164	1150	1147	1153	729
45°	1011	1003	990	987	988	781
55°	828	820	806	801	800	740
65°	601	592	570	578	579	592
75°	335	327	314	277	263	353
85°	73	80	94	93	94	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1428.1	1428.1	1428.1	1428.1	1428.1
2.5°	1429.0	1429.9	1420.8	1426.3	1433.6
5°	1427.2	1425.4	1417.1	1418.9	1423.5
7.5°	1419.9	1418.0	1410.7	1410.7	1414.4
10°	1417.1	1407.9	1401.5	1399.7	1401.5
12.5°	1394.2	1394.2	1385.9	1386.8	1385.0
15°	1377.7	1376.7	1372.2	1370.3	1369.4
17.5°	1359.3	1357.5	1352.9	1356.6	1351.1
20°	1341.0	1338.2	1332.7	1335.5	1328.1
22.5°	1318.0	1313.5	1309.8	1314.4	1306.1
25°	1291.4	1288.7	1283.2	1285.9	1285.0
27.5°	1263.0	1261.2	1253.8	1253.8	1257.5
30°	1230.9	1230.0	1220.8	1221.7	1225.4
32.5°	1197.9	1196.1	1186.9	1184.1	1190.5
35°	1165.8	1164.0	1150.2	1147.4	1152.9
37.5°	1129.1	1126.3	1112.6	1108.0	1112.6
40°	1089.7	1087.8	1070.4	1066.7	1071.3
42.5°	1052.0	1045.6	1032.8	1027.3	1028.2
45°	1010.8	1003.4	989.7	986.9	987.8
47.5°	971.3	961.2	948.4	945.7	941.1
50°	927.3	915.4	901.6	898.0	896.1
52.5°	880.5	867.7	856.7	849.3	847.5
55°	828.2	820.0	806.2	800.7	799.8
57.5°	776.9	766.8	751.2	745.7	744.8
60°	720.0	713.6	691.6	690.7	691.6
62.5°	661.3	652.1	633.8	635.6	641.1
65°	600.8	591.6	570.5	577.8	578.8
67.5°	535.7	528.3	507.2	511.8	506.3
70°	469.6	464.1	448.5	437.5	423.8
72.5°	403.6	395.3	385.2	353.1	341.2
75°	334.8	327.4	313.7	277.0	263.2
77.5°	264.2	262.3	236.6	211.9	214.6
80°	199.0	200.9	174.3	183.4	188.9
82.5°	132.1	133.0	140.3	148.6	144.9
85°	73.4	79.8	94.5	92.6	94.5
87.5°	26.6	40.4	41.3	44.0	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)