

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: P393128

Luminaire Tested: **14EN-LD2-43-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-54)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-43-UNV-L82765-W2A-1-U (5700K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4098.9 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

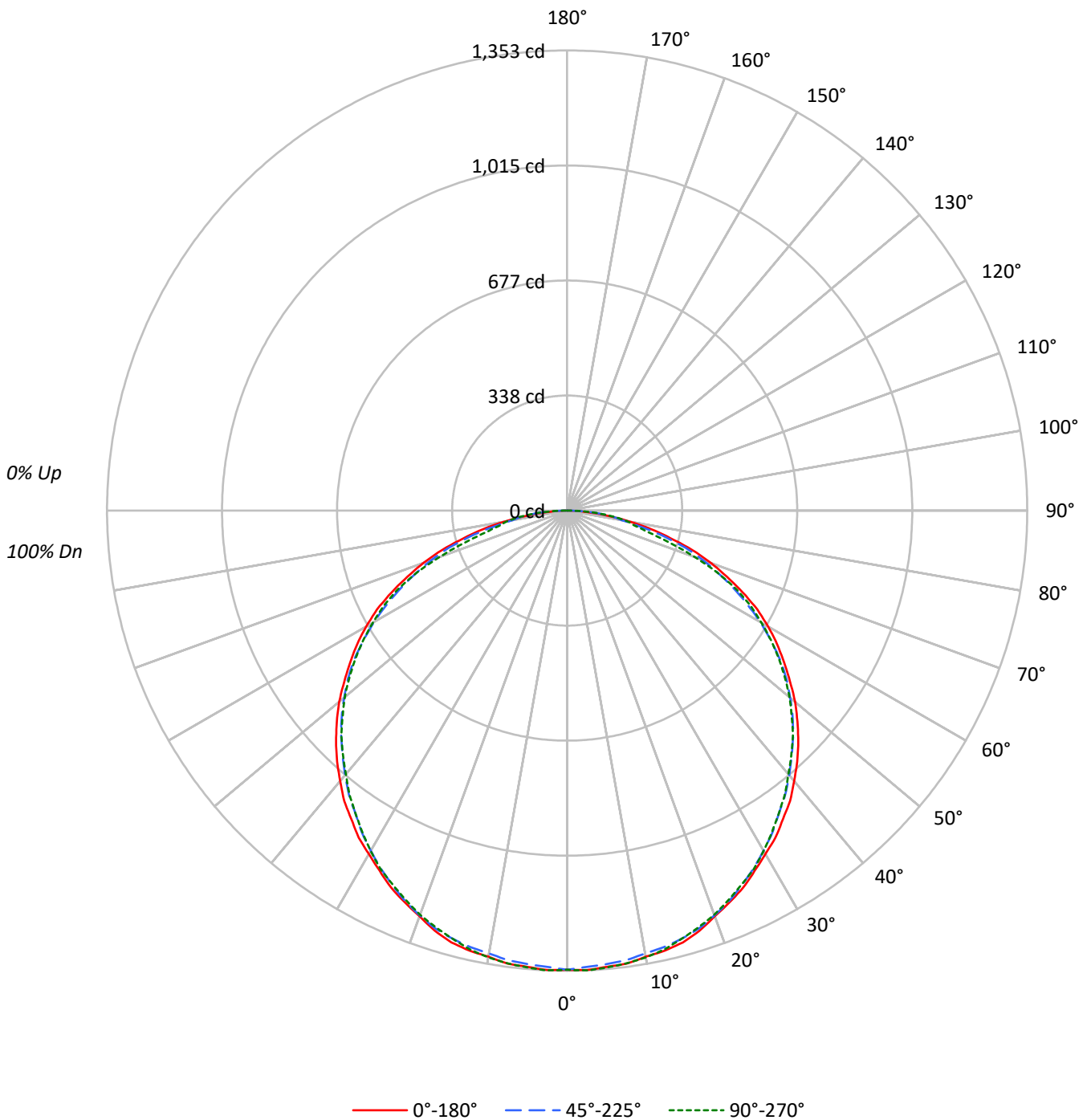
Input Watts (W): 41.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	35	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°	3634	3634	3634
5°	3637	3616	3642
10°	3640	3613	3645
15°	3662	3630	3630
20°	3635	3627	3621
25°	3634	3609	3603
30°	3624	3588	3591
35°	3635	3568	3565
40°	3646	3569	3555
45°	3657	3576	3573
50°	3664	3583	3575
55°	3654	3586	3568
60°	3673	3527	3553
65°	3627	3436	3504
70°	3533	3337	3147
75°	3277	3077	2565
80°	2898	2509	2763
85°	2112	2739	2797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	3.1
10°-20°	368.5	9.0
20°-30°	560.7	13.7
30°-40°	684.4	16.7
40°-50°	729.2	17.8
50°-60°	683.7	16.7
60°-70°	543.1	13.2
70°-80°	308.8	7.5
80°-90°	92.7	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°	1057.1	25.8
0°-40°	1741.5	42.5
0°-60°	3154.4	77.0
0°-90°	4098.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4098.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1346	1344	1339	1349	1348	128
15°	1315	1311	1303	1301	1303	370
25°	1224	1218	1215	1212	1213	564
35°	1106	1097	1086	1089	1085	693
45°	961	956	940	937	939	741
55°	779	772	764	755	760	697
65°	570	560	540	546	550	563
75°	315	312	296	263	247	336
85°	68	75	89	89	91	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.3	1350.3	1350.3	1350.3	1350.3
2.5°	1352.2	1348.4	1342.6	1355.1	1353.2
5°	1346.5	1343.6	1338.7	1349.3	1348.4
7.5°	1343.6	1337.8	1333.0	1344.5	1342.6
10°	1332.0	1333.0	1322.4	1333.9	1333.9
12.5°	1325.2	1323.3	1314.6	1318.5	1321.4
15°	1314.6	1310.8	1303.1	1301.2	1303.1
17.5°	1295.4	1291.5	1288.6	1281.9	1284.8
20°	1269.3	1271.3	1266.5	1260.7	1264.5
22.5°	1247.2	1245.3	1243.3	1237.5	1239.5
25°	1224.0	1218.3	1215.4	1211.5	1213.4
27.5°	1194.2	1190.3	1186.5	1184.5	1188.4
30°	1166.2	1160.4	1154.7	1152.7	1155.6
32.5°	1140.2	1129.6	1122.8	1123.8	1120.9
35°	1106.5	1096.8	1086.2	1089.1	1085.3
37.5°	1076.6	1065.0	1053.5	1056.3	1051.5
40°	1038.0	1031.3	1015.9	1017.8	1012.0
42.5°	1001.4	997.6	977.3	978.3	975.4
45°	960.9	956.1	939.7	936.8	938.8
47.5°	918.5	913.7	899.2	892.5	895.4
50°	875.1	869.4	855.9	850.1	853.9
52.5°	826.0	823.1	812.5	803.8	806.7
55°	778.8	772.0	764.3	754.7	760.5
57.5°	732.5	724.8	710.3	705.5	711.3
60°	682.4	669.9	655.4	651.5	660.2
62.5°	630.3	615.9	597.6	598.5	609.1
65°	569.6	560.0	539.7	546.5	550.3
67.5°	507.9	500.2	480.9	490.6	480.0
70°	449.1	439.5	424.1	411.6	400.0
72.5°	386.5	374.9	365.3	332.5	319.0
75°	315.2	312.3	295.9	263.1	246.7
77.5°	254.4	247.7	225.5	200.5	202.4
80°	187.0	191.8	161.9	173.5	178.3
82.5°	123.4	126.3	134.0	139.8	138.8
85°	68.4	75.2	88.7	88.7	90.6
87.5°	26.0	33.7	38.6	39.5	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)