

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: P393127

Luminaire Tested: **14EN-LD2-43-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393127
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 (5000K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4083.8 lumens
Efficiency: N/A
Efficacy: 98.6 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

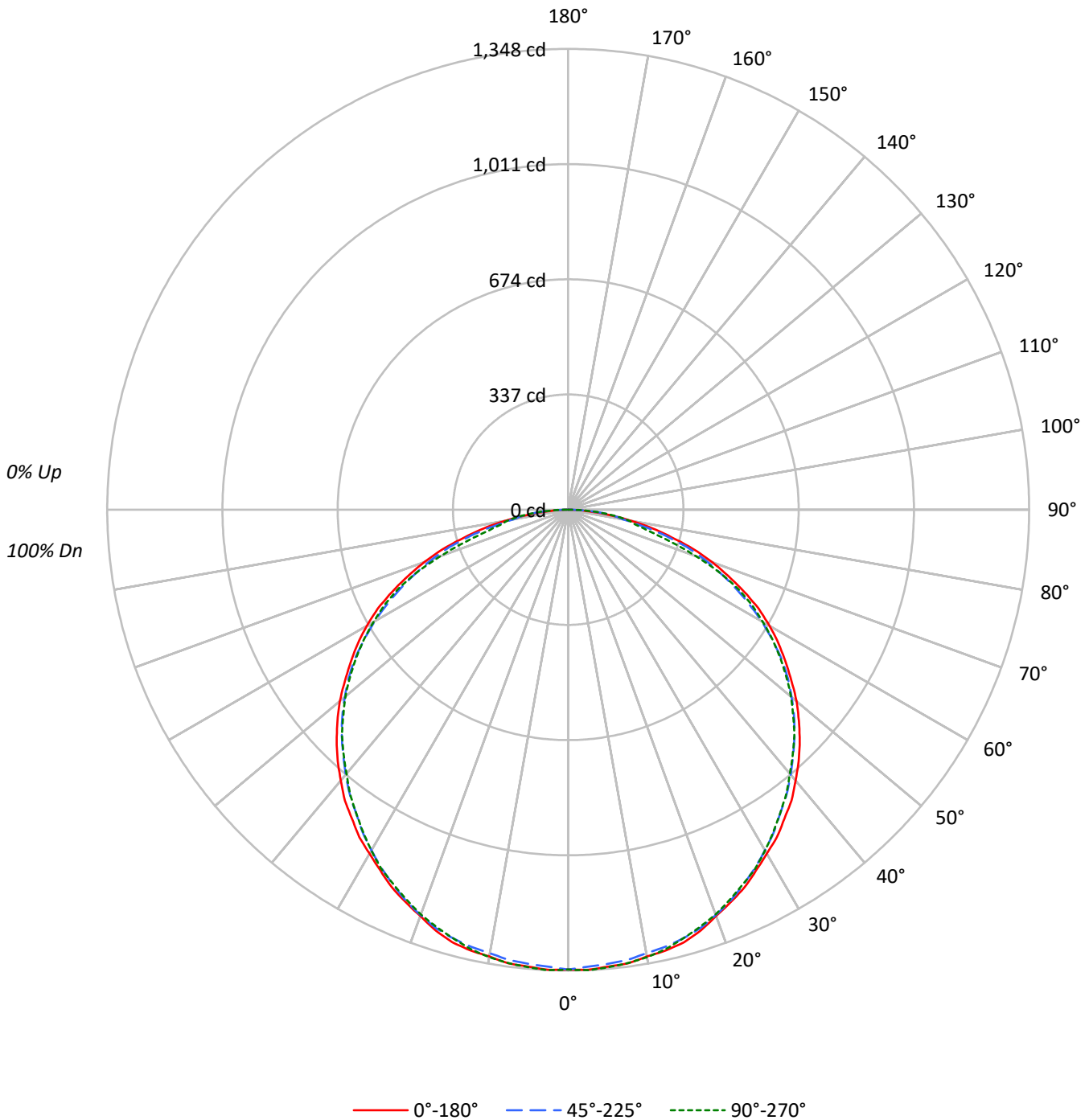
Input Watts (W): 41.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3620	3620	3620
5°	3624	3603	3629
10°	3626	3600	3631
15°	3649	3617	3617
20°	3622	3613	3608
25°	3621	3595	3590
30°	3610	3575	3578
35°	3621	3555	3552
40°	3633	3555	3542
45°	3643	3563	3559
50°	3650	3570	3562
55°	3640	3573	3555
60°	3659	3514	3540
65°	3613	3424	3491
70°	3521	3324	3135
75°	3265	3065	2556
80°	2887	2500	2754
85°	2106	2726	2788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	3.1
10°-20°	367.1	9.0
20°-30°	558.6	13.7
30°-40°	681.9	16.7
40°-50°	726.5	17.8
50°-60°	681.2	16.7
60°-70°	541.1	13.2
70°-80°	307.6	7.5
80°-90°	92.3	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°	1053.2	25.8
0°-40°	1735.1	42.5
0°-60°	3142.8	77.0
0°-90°	4083.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4083.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1342	1339	1334	1344	1343	128
15°	1310	1306	1298	1296	1298	369
25°	1220	1214	1211	1207	1209	562
35°	1102	1093	1082	1085	1081	691
45°	957	953	936	933	935	738
55°	776	769	762	752	758	695
65°	568	558	538	544	548	561
75°	314	311	295	262	246	335
85°	68	75	88	88	90	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.3	1345.3	1345.3	1345.3	1345.3
2.5°	1347.3	1343.4	1337.7	1350.1	1348.2
5°	1341.5	1338.6	1333.8	1344.4	1343.4
7.5°	1338.6	1332.9	1328.1	1339.6	1337.7
10°	1327.1	1328.1	1317.5	1329.0	1329.0
12.5°	1320.4	1318.5	1309.8	1313.7	1316.5
15°	1309.8	1306.0	1298.3	1296.4	1298.3
17.5°	1290.6	1286.8	1283.9	1277.2	1280.0
20°	1264.7	1266.6	1261.8	1256.0	1259.9
22.5°	1242.6	1240.7	1238.8	1233.0	1234.9
25°	1219.5	1213.8	1210.9	1207.1	1209.0
27.5°	1189.8	1185.9	1182.1	1180.2	1184.0
30°	1161.9	1156.2	1150.4	1148.5	1151.4
32.5°	1136.0	1125.4	1118.7	1119.7	1116.8
35°	1102.4	1092.8	1082.2	1085.1	1081.3
37.5°	1072.6	1061.1	1049.6	1052.5	1047.7
40°	1034.2	1027.5	1012.1	1014.0	1008.3
42.5°	997.7	993.9	973.7	974.7	971.8
45°	957.4	952.6	936.3	933.4	935.3
47.5°	915.1	910.3	895.9	889.2	892.1
50°	871.9	866.2	852.7	847.0	850.8
52.5°	823.0	820.1	809.5	800.9	803.7
55°	775.9	769.2	761.5	751.9	757.7
57.5°	729.8	722.1	707.7	702.9	708.7
60°	679.9	667.4	653.0	649.1	657.8
62.5°	628.0	613.6	595.4	596.3	606.9
65°	567.5	557.9	537.8	544.5	548.3
67.5°	506.1	498.4	479.2	488.8	478.2
70°	447.5	437.9	422.5	410.0	398.5
72.5°	385.1	373.5	363.9	331.3	317.9
75°	314.0	311.1	294.8	262.2	245.8
77.5°	253.5	246.8	224.7	199.7	201.7
80°	186.3	191.1	161.3	172.8	177.7
82.5°	122.9	125.8	133.5	139.2	138.3
85°	68.2	74.9	88.3	88.3	90.3
87.5°	25.9	33.6	38.4	39.4	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)