

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: P393124

Luminaire Tested: **14EN-LD2-43-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393124
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 (3500K)
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: 4027.9 lumens
Efficiency: N/A
Efficacy: 96.4 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

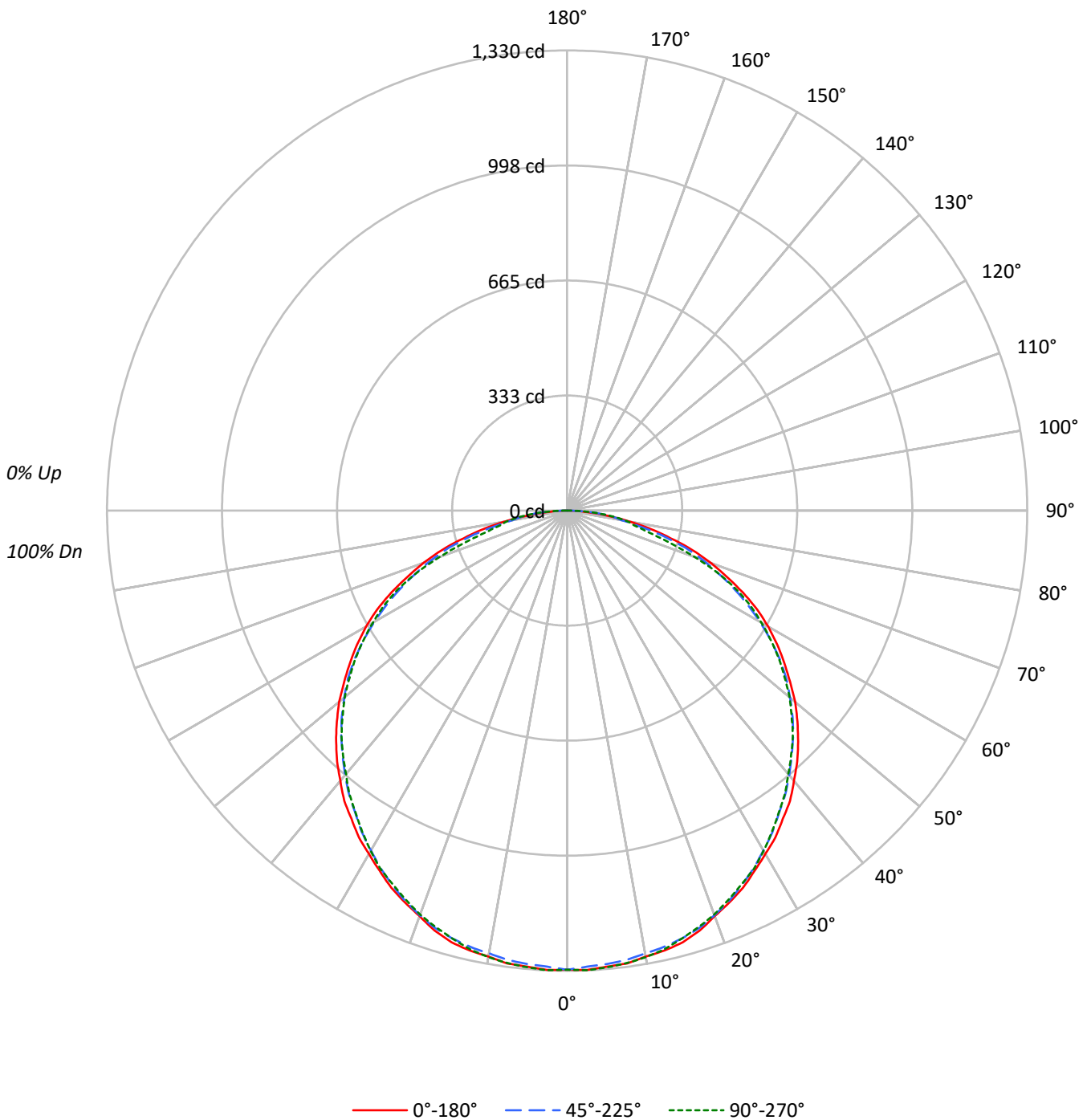
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3571	3571	3571
5°	3574	3554	3579
10°	3577	3551	3582
15°	3599	3567	3567
20°	3572	3564	3558
25°	3571	3546	3540
30°	3561	3526	3529
35°	3572	3506	3504
40°	3583	3507	3494
45°	3594	3514	3511
50°	3600	3521	3513
55°	3590	3524	3506
60°	3609	3466	3492
65°	3564	3377	3443
70°	3473	3279	3093
75°	3220	3023	2521
80°	2847	2466	2715
85°	2075	2689	2748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	3.1
10°-20°	362.1	9.0
20°-30°	551.0	13.7
30°-40°	672.5	16.7
40°-50°	716.6	17.8
50°-60°	671.8	16.7
60°-70°	533.6	13.2
70°-80°	303.4	7.5
80°-90°	91.1	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°	1038.8	25.8
0°-40°	1711.3	42.5
0°-60°	3099.7	77.0
0°-90°	4027.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4027.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1323	1320	1316	1326	1325	126
15°	1292	1288	1280	1279	1280	364
25°	1203	1197	1194	1190	1192	554
35°	1087	1078	1067	1070	1066	681
45°	944	940	923	921	922	728
55°	765	759	751	742	747	685
65°	560	550	530	537	541	553
75°	310	307	291	259	242	330
85°	67	74	87	87	89	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.9	1326.9	1326.9	1326.9	1326.9
2.5°	1328.8	1325.0	1319.3	1331.6	1329.7
5°	1323.1	1320.3	1315.5	1326.0	1325.0
7.5°	1320.3	1314.6	1309.9	1321.2	1319.3
10°	1308.9	1309.9	1299.4	1310.8	1310.8
12.5°	1302.3	1300.4	1291.9	1295.7	1298.5
15°	1291.9	1288.1	1280.5	1278.6	1280.5
17.5°	1272.9	1269.1	1266.3	1259.7	1262.5
20°	1247.4	1249.2	1244.5	1238.8	1242.6
22.5°	1225.6	1223.7	1221.8	1216.1	1218.0
25°	1202.8	1197.2	1194.3	1190.5	1192.4
27.5°	1173.5	1169.7	1165.9	1164.0	1167.8
30°	1146.0	1140.3	1134.6	1132.7	1135.6
32.5°	1120.4	1110.0	1103.4	1104.3	1101.5
35°	1087.3	1077.8	1067.4	1070.2	1066.5
37.5°	1057.9	1046.6	1035.2	1038.0	1033.3
40°	1020.0	1013.4	998.3	1000.2	994.5
42.5°	984.1	980.3	960.4	961.3	958.5
45°	944.3	939.5	923.4	920.6	922.5
47.5°	902.6	897.9	883.7	877.0	879.9
50°	860.0	854.3	841.0	835.4	839.1
52.5°	811.7	808.8	798.4	789.9	792.7
55°	765.3	758.6	751.1	741.6	747.3
57.5°	719.8	712.2	698.0	693.3	699.0
60°	670.6	658.2	644.0	640.2	648.8
62.5°	619.4	605.2	587.2	588.2	598.6
65°	559.7	550.3	530.4	537.0	540.8
67.5°	499.1	491.6	472.6	482.1	471.7
70°	441.4	431.9	416.7	404.4	393.1
72.5°	379.8	368.4	359.0	326.8	313.5
75°	309.7	306.9	290.8	258.6	242.5
77.5°	250.0	243.4	221.6	197.0	198.9
80°	183.7	188.5	159.1	170.5	175.2
82.5°	121.2	124.1	131.6	137.3	136.4
85°	67.2	73.9	87.1	87.1	89.0
87.5°	25.6	33.1	37.9	38.8	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)