

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: P393379

Luminaire Tested: **22EN-LD2-43-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43-UNV-L82765-W2A-1-U (3000K)
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3941.3 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

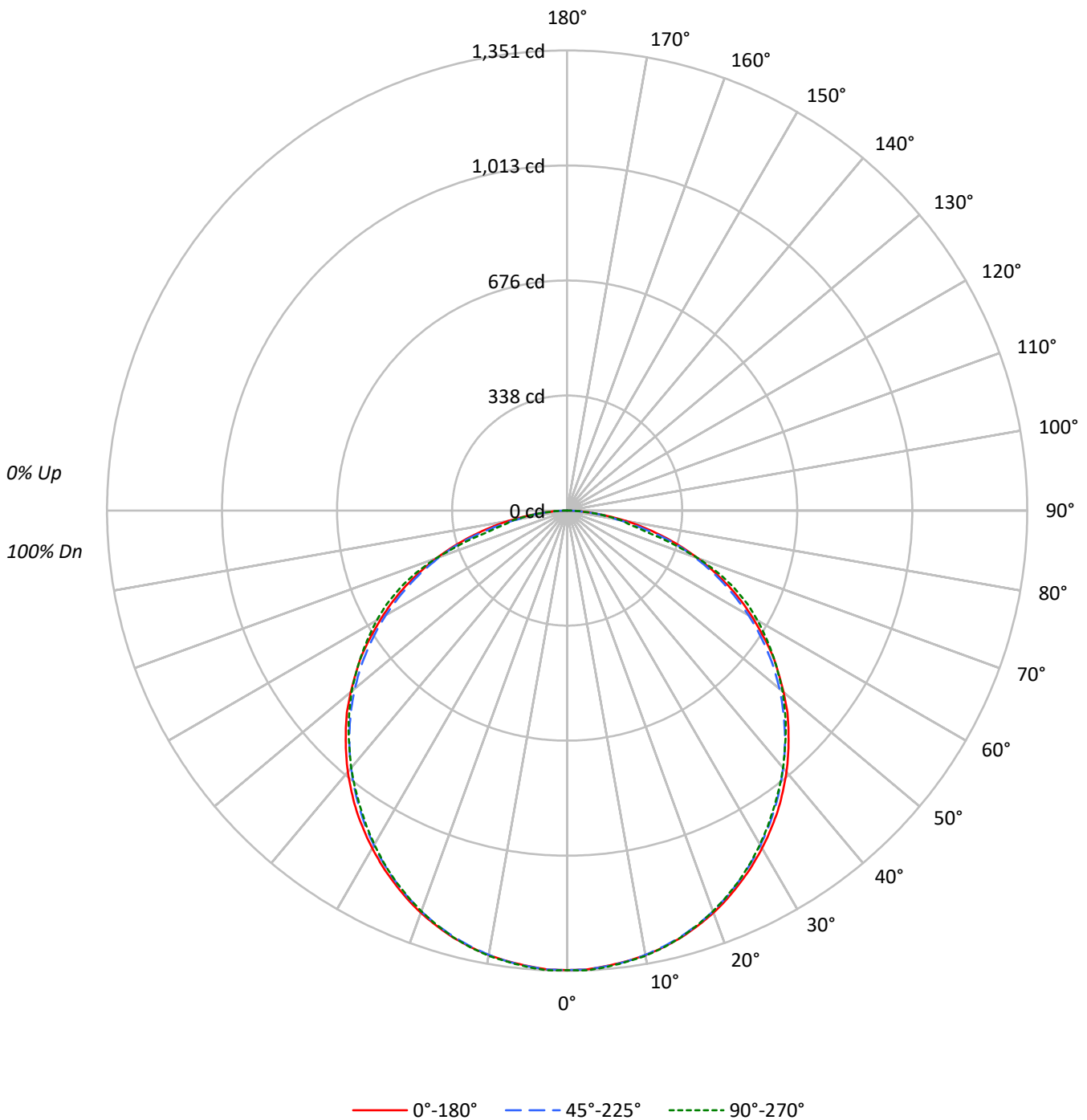
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3631	3631	3631
5°	3625	3627	3632
10°	3622	3619	3627
15°	3613	3606	3611
20°	3599	3585	3585
25°	3576	3557	3554
30°	3557	3526	3517
35°	3540	3495	3483
40°	3518	3467	3464
45°	3498	3438	3456
50°	3471	3406	3456
55°	3447	3365	3455
60°	3381	3313	3475
65°	3323	3235	3463
70°	3204	3132	3212
75°	3023	2861	2489
80°	2715	2275	2445
85°	2010	2069	1982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	3.2
10°-20°	365.3	9.3
20°-30°	552.6	14.0
30°-40°	667.3	16.9
40°-50°	700.5	17.8
50°-60°	648.7	16.5
60°-70°	513.3	13.0
70°-80°	288.7	7.3
80°-90°	77.2	2.0
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°	1045.6	26.5
0°-40°	1712.9	43.5
0°-60°	3062.1	77.7
0°-90°	3941.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3941.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1342	1341	1343	1343	1345	128
15°	1297	1295	1294	1294	1296	366
25°	1204	1202	1198	1196	1197	555
35°	1078	1073	1064	1058	1060	674
45°	919	914	904	901	908	709
55°	735	727	717	724	736	654
65°	522	516	508	527	544	515
75°	291	286	275	251	239	307
85°	65	63	67	63	64	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.2	1349.2	1349.2	1349.2	1349.2
2.5°	1348.3	1347.4	1348.3	1348.3	1351.1
5°	1341.9	1341.0	1342.8	1342.8	1344.6
7.5°	1334.6	1333.6	1335.5	1335.5	1336.4
10°	1325.4	1323.5	1324.5	1325.4	1327.2
12.5°	1312.5	1310.7	1310.7	1311.6	1313.5
15°	1296.9	1295.1	1294.2	1294.2	1296.0
17.5°	1277.7	1274.9	1274.9	1273.1	1274.9
20°	1256.6	1253.8	1252.0	1250.2	1252.0
22.5°	1231.8	1229.1	1226.3	1224.5	1225.4
25°	1204.3	1202.5	1197.9	1196.1	1197.0
27.5°	1175.9	1173.1	1167.6	1163.9	1165.8
30°	1144.7	1141.0	1134.6	1130.0	1131.8
32.5°	1111.7	1108.0	1100.7	1095.2	1097.0
35°	1077.7	1073.1	1064.0	1058.5	1060.3
37.5°	1040.1	1036.5	1026.4	1020.9	1023.6
40°	1001.6	997.9	986.9	982.3	986.0
42.5°	961.2	957.6	945.7	941.1	946.6
45°	919.1	914.5	903.5	900.7	908.0
47.5°	876.9	870.4	859.4	857.6	866.8
50°	829.2	824.6	813.6	814.5	825.5
52.5°	781.5	777.8	766.8	770.5	780.6
55°	734.7	727.4	717.3	723.7	736.5
57.5°	680.6	676.0	666.8	676.9	690.7
60°	628.3	624.6	615.5	628.3	645.7
62.5°	576.9	569.6	561.3	579.7	598.0
65°	521.9	515.5	508.1	527.4	543.9
67.5°	465.0	458.6	453.1	470.5	482.5
70°	407.2	401.7	398.1	403.6	408.2
72.5°	349.5	344.0	341.2	328.4	324.7
75°	290.8	286.2	275.2	251.3	239.4
77.5°	232.1	226.6	208.2	185.3	186.2
80°	175.2	168.8	146.8	153.2	157.8
82.5°	119.2	114.7	110.1	108.2	109.1
85°	65.1	63.3	67.0	63.3	64.2
87.5°	26.6	27.5	29.4	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)