

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: P393378

Luminaire Tested: **22EN-LD2-43-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393378
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 (2700K)
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: 3903.5 lumens
Efficiency: N/A
Efficacy: 119.0 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

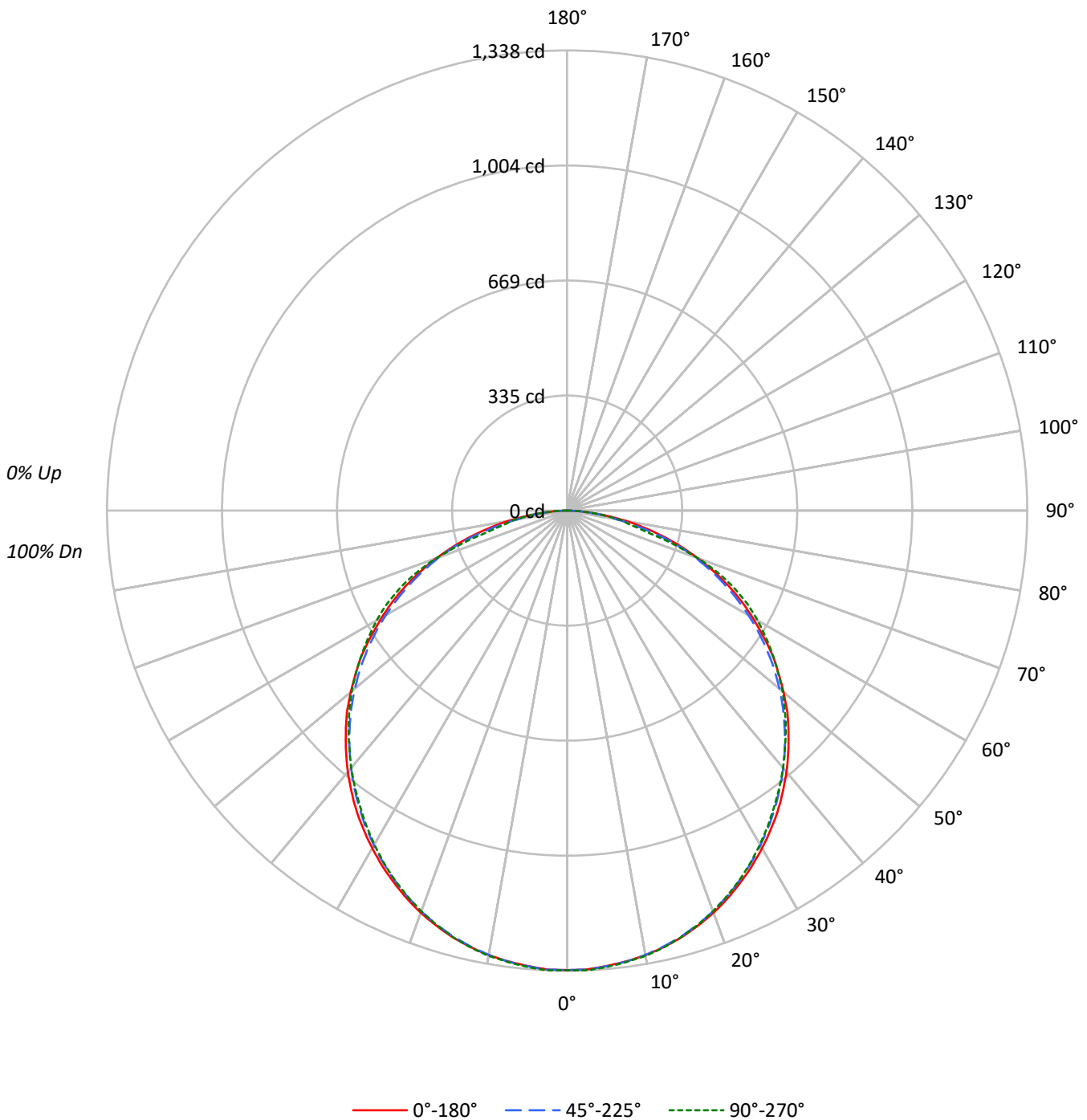
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393378

CATALOG NUMBER: 22EN-LD2-43-UNV-L82765-W2A-1-U (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P393378

CATALOG NUMBER: 22EN-LD2-43-UNV-L82765-W2A-1-U (2700K)

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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3596	3596	3596
5°	3590	3592	3598
10°	3587	3584	3592
15°	3578	3571	3576
20°	3564	3551	3551
25°	3542	3523	3520
30°	3523	3492	3483
35°	3506	3462	3450
40°	3485	3434	3431
45°	3464	3405	3422
50°	3438	3373	3423
55°	3414	3333	3423
60°	3349	3281	3442
65°	3291	3205	3430
70°	3173	3102	3181
75°	2994	2833	2465
80°	2689	2252	2422
85°	1991	2047	1964



TEST NUMBER: P393378

CATALOG NUMBER: 22EN-LD2-43-UNV-L82765-W2A-1-U (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	3.2
10°-20°	361.8	9.3
20°-30°	547.4	14.0
30°-40°	660.9	16.9
40°-50°	693.8	17.8
50°-60°	642.5	16.5
60°-70°	508.4	13.0
70°-80°	285.9	7.3
80°-90°	76.5	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°	1035.6	26.5
0°-40°	1696.5	43.5
0°-60°	3032.7	77.7
0°-90°	3903.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3903.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1329	1328	1330	1330	1332	126
15°	1284	1283	1282	1282	1284	362
25°	1193	1191	1186	1185	1186	550
35°	1067	1063	1054	1048	1050	668
45°	910	906	895	892	899	702
55°	728	720	710	717	730	648
65°	517	510	503	522	539	510
75°	288	283	272	249	237	304
85°	64	63	66	63	64	80
90°	0	0	0	0	0	



TEST NUMBER: P393378

CATALOG NUMBER: 22EN-LD2-43-UNV-L82765-W2A-1-U (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.3	1336.3	1336.3	1336.3	1336.3
2.5°	1335.4	1334.5	1335.4	1335.4	1338.1
5°	1329.0	1328.1	1329.9	1329.9	1331.8
7.5°	1321.8	1320.9	1322.7	1322.7	1323.6
10°	1312.7	1310.9	1311.8	1312.7	1314.5
12.5°	1300.0	1298.1	1298.1	1299.1	1300.9
15°	1284.5	1282.7	1281.8	1281.8	1283.6
17.5°	1265.4	1262.7	1262.7	1260.9	1262.7
20°	1244.5	1241.8	1240.0	1238.2	1240.0
22.5°	1220.0	1217.3	1214.6	1212.8	1213.7
25°	1192.8	1191.0	1186.4	1184.6	1185.5
27.5°	1164.6	1161.9	1156.4	1152.8	1154.6
30°	1133.7	1130.1	1123.7	1119.2	1121.0
32.5°	1101.0	1097.4	1090.1	1084.7	1086.5
35°	1067.4	1062.9	1053.8	1048.3	1050.1
37.5°	1030.2	1026.5	1016.5	1011.1	1013.8
40°	992.0	988.4	977.5	972.9	976.6
42.5°	952.0	948.4	936.6	932.0	937.5
45°	910.2	905.7	894.8	892.1	899.3
47.5°	868.5	862.1	851.2	849.4	858.5
50°	821.2	816.7	805.8	806.7	817.6
52.5°	774.0	770.3	759.4	763.1	773.1
55°	727.7	720.4	710.4	716.8	729.5
57.5°	674.1	669.5	660.4	670.4	684.0
60°	622.3	618.6	609.6	622.3	639.5
62.5°	571.4	564.1	556.0	574.1	592.3
65°	516.9	510.5	503.3	522.3	538.7
67.5°	460.6	454.2	448.8	466.0	477.8
70°	403.3	397.9	394.3	399.7	404.3
72.5°	346.1	340.7	337.9	325.2	321.6
75°	288.0	283.4	272.5	248.9	237.1
77.5°	229.8	224.4	206.2	183.5	184.4
80°	173.5	167.2	145.3	151.7	156.3
82.5°	118.1	113.6	109.0	107.2	108.1
85°	64.5	62.7	66.3	62.7	63.6
87.5°	26.3	27.3	29.1	28.2	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)