

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: P393408

Luminaire Tested: **22EN-LD2-43-UNV-L93050-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393408  
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-L93050-W2A-1-U (5700K)  
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3790.6 lumens  
Efficiency: N/A  
Efficacy: 117.7 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

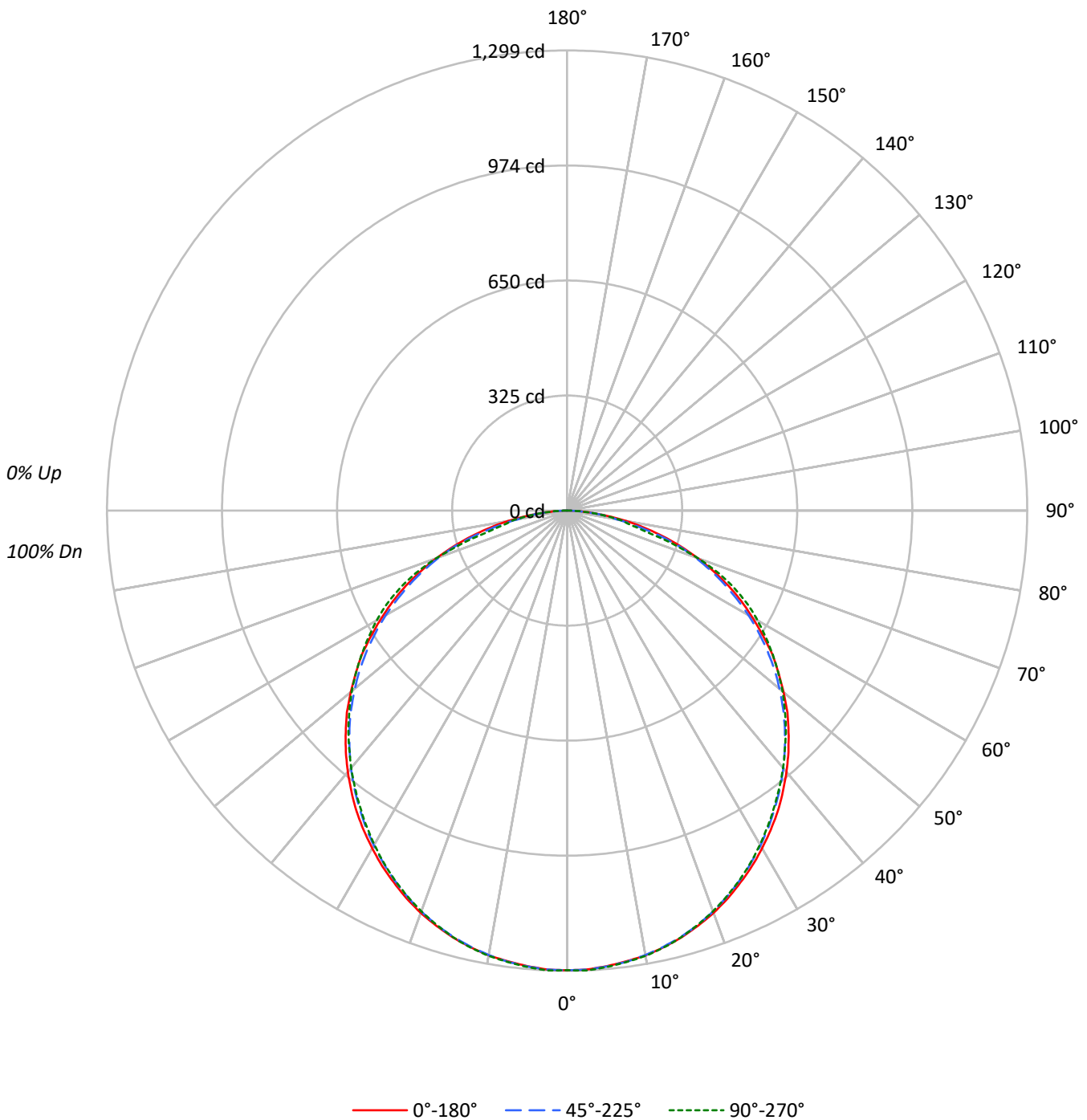
Input Watts (W): 32.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3492	3492	3492
5°	3486	3489	3493
10°	3483	3481	3488
15°	3475	3468	3473
20°	3461	3448	3448
25°	3439	3421	3418
30°	3421	3391	3383
35°	3405	3362	3350
40°	3384	3334	3331
45°	3364	3307	3323
50°	3339	3276	3324
55°	3315	3236	3324
60°	3252	3186	3342
65°	3196	3112	3331
70°	3082	3013	3089
75°	2907	2751	2393
80°	2611	2187	2351
85°	1933	1988	1908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.7	3.2
10°-20°	351.4	9.3
20°-30°	531.5	14.0
30°-40°	641.8	16.9
40°-50°	673.8	17.8
50°-60°	623.9	16.5
60°-70°	493.7	13.0
70°-80°	277.6	7.3
80°-90°	74.3	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°	1005.6	26.5
0°-40°	1647.4	43.5
0°-60°	2945.0	77.7
0°-90°	3790.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3790.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1291	1290	1292	1292	1293	123
15°	1247	1246	1245	1245	1246	352
25°	1158	1156	1152	1150	1151	534
35°	1036	1032	1023	1018	1020	648
45°	884	880	869	866	873	682
55°	707	700	690	696	708	629
65°	502	496	489	507	523	495
75°	280	275	265	242	230	295
85°	63	61	64	61	62	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1297.6	1297.6	1297.6	1297.6	1297.6
2.5°	1296.8	1295.9	1296.8	1296.8	1299.4
5°	1290.6	1289.7	1291.5	1291.5	1293.2
7.5°	1283.5	1282.6	1284.4	1284.4	1285.3
10°	1274.7	1272.9	1273.8	1274.7	1276.5
12.5°	1262.4	1260.6	1260.6	1261.5	1263.2
15°	1247.4	1245.6	1244.7	1244.7	1246.5
17.5°	1228.8	1226.2	1226.2	1224.4	1226.2
20°	1208.5	1205.9	1204.1	1202.4	1204.1
22.5°	1184.7	1182.1	1179.4	1177.7	1178.6
25°	1158.3	1156.5	1152.1	1150.3	1151.2
27.5°	1130.9	1128.3	1123.0	1119.4	1121.2
30°	1100.9	1097.4	1091.2	1086.8	1088.6
32.5°	1069.2	1065.6	1058.6	1053.3	1055.1
35°	1036.5	1032.1	1023.3	1018.0	1019.8
37.5°	1000.4	996.8	987.1	981.8	984.5
40°	963.3	959.8	949.2	944.8	948.3
42.5°	924.5	921.0	909.5	905.1	910.4
45°	883.9	879.5	868.9	866.3	873.3
47.5°	843.3	837.2	826.6	824.8	833.6
50°	797.5	793.1	782.5	783.3	793.9
52.5°	751.6	748.1	737.5	741.0	750.7
55°	706.6	699.5	689.8	696.0	708.4
57.5°	654.6	650.1	641.3	651.0	664.3
60°	604.3	600.7	591.9	604.3	621.0
62.5°	554.9	547.8	539.9	557.5	575.2
65°	501.9	495.8	488.7	507.2	523.1
67.5°	447.2	441.1	435.8	452.5	464.0
70°	391.7	386.4	382.9	388.1	392.6
72.5°	336.1	330.8	328.2	315.8	312.3
75°	279.6	275.2	264.6	241.7	230.2
77.5°	223.2	217.9	200.2	178.2	179.1
80°	168.5	162.3	141.1	147.3	151.7
82.5°	114.7	110.3	105.9	104.1	105.0
85°	62.6	60.9	64.4	60.9	61.8
87.5°	25.6	26.5	28.2	27.3	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)