

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: P393373

Luminaire Tested: **22EN-LD2-39-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393373  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-39-UNV-L93050-W2A-1-U (4000K)  
Description: 2X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3434.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

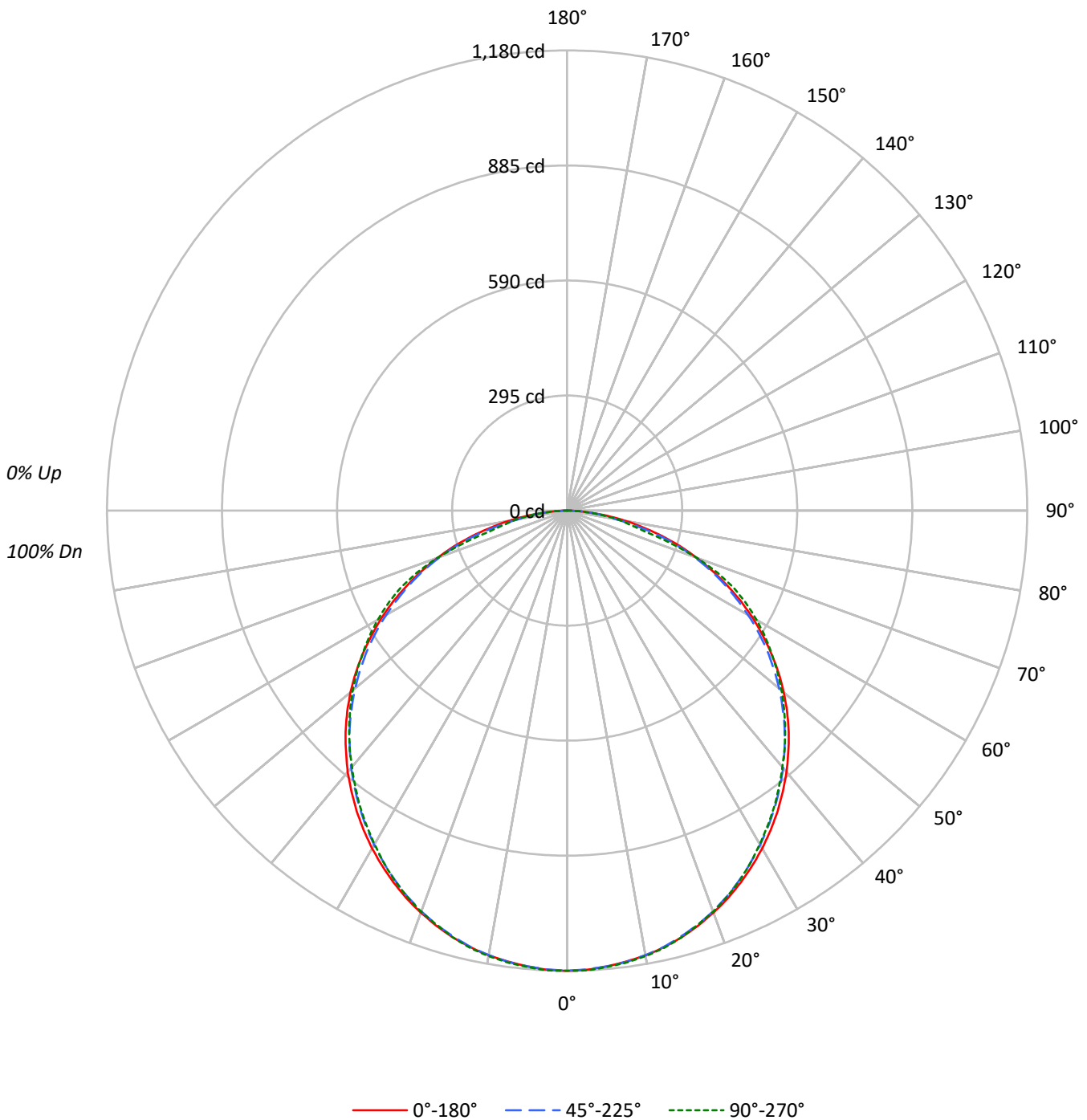
Input Watts (W): 29.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	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	40	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°	3176	3176	3176
5°	3169	3169	3174
10°	3165	3163	3170
15°	3156	3149	3156
20°	3142	3132	3134
25°	3125	3105	3107
30°	3108	3075	3070
35°	3091	3050	3042
40°	3075	3026	3016
45°	3058	3002	3008
50°	3035	2973	3006
55°	3000	2938	3004
60°	2953	2886	3018
65°	2876	2825	3009
70°	2769	2722	2777
75°	2607	2497	2125
80°	2342	1976	2098
85°	1673	1698	1698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.5	3.2
10°-20°	319.2	9.3
20°-30°	482.5	14.0
30°-40°	582.2	17.0
40°-50°	611.0	17.8
50°-60°	565.4	16.5
60°-70°	446.3	13.0
70°-80°	249.9	7.3
80°-90°	66.1	1.9
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°	913.2	26.6
0°-40°	1495.4	43.5
0°-60°	2671.7	77.8
0°-90°	3434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3434.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1173	1171	1173	1173	1175	112
15°	1133	1132	1130	1130	1133	320
25°	1053	1049	1046	1043	1046	485
35°	941	936	928	923	926	589
45°	804	798	789	784	790	620
55°	639	634	626	631	640	571
65°	452	448	444	458	473	447
75°	251	248	240	215	204	265
85°	54	54	55	55	55	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.1	1180.1	1180.1	1180.1	1180.1
2.5°	1178.4	1176.6	1177.5	1178.4	1180.1
5°	1173.1	1171.4	1173.1	1173.1	1174.9
7.5°	1166.1	1165.3	1167.0	1167.0	1168.8
10°	1158.3	1156.5	1157.4	1157.4	1160.0
12.5°	1146.9	1146.0	1146.0	1146.0	1148.7
15°	1132.9	1132.1	1130.3	1130.3	1132.9
17.5°	1116.3	1114.6	1113.7	1112.0	1113.7
20°	1097.1	1095.4	1093.6	1091.9	1094.5
22.5°	1076.2	1074.4	1070.9	1068.3	1071.8
25°	1052.6	1049.1	1045.6	1043.0	1046.5
27.5°	1027.2	1022.9	1018.5	1015.9	1018.5
30°	1000.2	995.8	989.7	985.3	987.9
32.5°	971.3	967.0	960.0	955.6	957.4
35°	940.8	936.4	928.5	923.3	925.9
37.5°	908.4	904.1	895.3	890.1	892.7
40°	875.3	870.0	861.3	856.0	858.7
42.5°	839.4	835.1	825.5	819.3	825.5
45°	803.6	798.4	788.8	784.4	790.5
47.5°	765.2	759.1	749.5	747.7	754.7
50°	725.0	719.8	710.2	709.3	718.0
52.5°	683.1	677.0	668.2	670.0	679.6
55°	639.4	634.2	626.3	630.7	640.3
57.5°	594.0	589.6	581.8	590.5	601.8
60°	548.6	543.3	536.3	547.7	560.8
62.5°	501.4	495.3	489.2	504.0	518.9
65°	451.6	448.1	443.7	457.7	472.6
67.5°	401.8	399.2	395.7	408.8	417.5
70°	352.0	348.5	345.9	350.3	352.9
72.5°	304.0	297.9	296.1	284.8	279.5
75°	250.7	248.1	240.2	214.9	204.4
77.5°	200.0	196.5	179.1	160.7	161.6
80°	151.1	145.9	127.5	133.6	135.4
82.5°	103.1	98.7	94.3	94.3	92.6
85°	54.2	54.2	55.0	55.0	55.0
87.5°	21.8	23.6	23.6	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)