

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: P393324

Luminaire Tested: **22EN-LD2-34-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393324
Test Lab: INNOVATION CENTER (G2)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-34-UNV-L83050-W2A-1-U (3500K)
Description: 2X2 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3429.1 lumens
Efficiency: N/A
Efficacy: 132.4 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

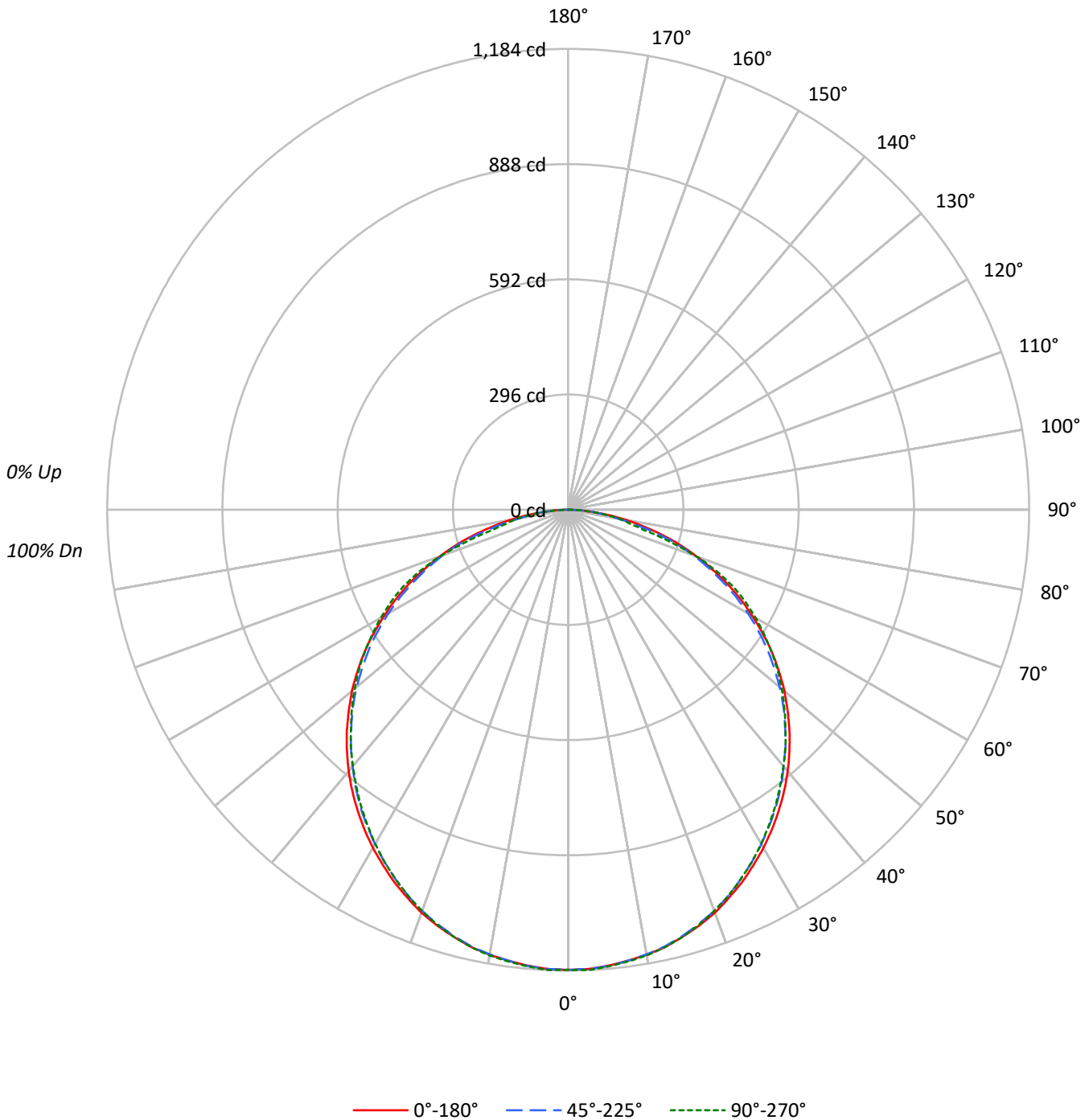
Input Watts (W): 25.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393324

CATALOG NUMBER: 22EN-LD2-34-UNV-L83050-W2A-1-U (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P393324

CATALOG NUMBER: 22EN-LD2-34-UNV-L83050-W2A-1-U (3500K)

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	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3181	3181	3181
5°	3177	3179	3182
10°	3172	3170	3178
15°	3165	3159	3165
20°	3156	3141	3141
25°	3135	3112	3112
30°	3117	3082	3079
35°	3098	3058	3049
40°	3081	3025	3021
45°	3060	2999	3003
50°	3035	2968	2997
55°	2998	2928	2993
60°	2939	2874	2992
65°	2872	2789	2980
70°	2762	2699	2762
75°	2589	2443	2090
80°	2325	1953	2092
85°	1729	1760	1729



TEST NUMBER: P393324

CATALOG NUMBER: 22EN-LD2-34-UNV-L83050-W2A-1-U (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.3
10°-20°	320.1	9.3
20°-30°	483.8	14.1
30°-40°	583.6	17.0
40°-50°	611.2	17.8
50°-60°	563.5	16.4
60°-70°	442.3	12.9
70°-80°	246.8	7.2
80°-90°	66.0	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°	915.8	26.7
0°-40°	1499.4	43.7
0°-60°	2674.0	78.0
0°-90°	3429.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3429.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1176	1175	1177	1177	1178	112
15°	1136	1134	1134	1134	1136	321
25°	1056	1052	1048	1047	1048	487
35°	943	939	931	926	928	590
45°	804	798	788	785	789	620
55°	639	632	624	628	638	570
65°	451	444	438	453	468	445
75°	249	244	235	211	201	263
85°	56	54	57	55	56	69
90°	0	0	0	0	0	



TEST NUMBER: P393324

CATALOG NUMBER: 22EN-LD2-34-UNV-L83050-W2A-1-U (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182	1182	1182	1182	1182
2.5°	1181	1180	1181	1182	1184
5°	1176	1175	1177	1177	1178
7.5°	1169	1168	1169	1170	1171
10°	1161	1160	1160	1161	1163
12.5°	1151	1149	1149	1149	1151
15°	1136	1134	1134	1134	1136
17.5°	1120	1118	1116	1116	1118
20°	1102	1099	1097	1096	1097
22.5°	1079	1077	1074	1072	1074
25°	1056	1052	1048	1047	1048
27.5°	1030	1026	1021	1019	1021
30°	1003	998	992	989	991
32.5°	974	970	962	959	960
35°	943	939	931	926	928
37.5°	911	906	897	892	894
40°	877	871	861	857	860
42.5°	841	836	826	822	826
45°	804	798	788	785	789
47.5°	764	760	750	749	753
50°	725	718	709	710	716
52.5°	682	676	666	670	678
55°	639	632	624	628	638
57.5°	593	588	579	585	597
60°	546	542	534	544	556
62.5°	500	493	486	499	513
65°	451	444	438	453	468
67.5°	400	395	390	402	412
70°	351	346	343	345	351
72.5°	301	296	293	282	275
75°	249	244	235	211	201
77.5°	198	195	177	156	159
80°	150	145	126	130	135
82.5°	102	97	95	92	93
85°	56	54	57	55	56
87.5°	22	23	25	24	24
90°	0	0	0	0	0

(END OF REPORT)