

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: P392908

Luminaire Tested: **12EN-LD2-35-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392908
Test Lab: INNOVATION CENTER (G2)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-35-UNV-L83050-W2A-1-U (3500K)
Description: 1X2 ENCOUNTER, 3500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3493.3 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

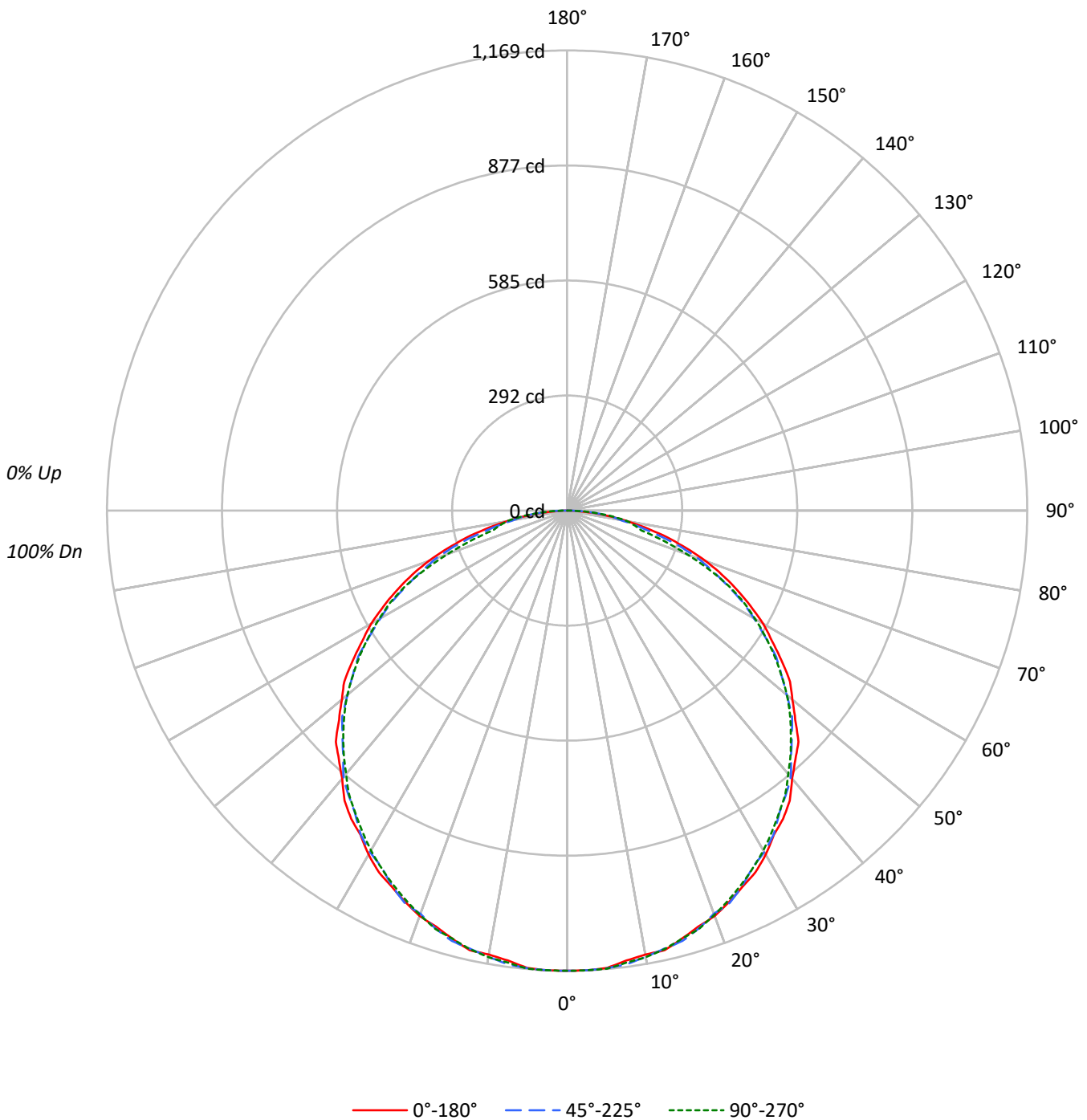
Input Watts (W): 30.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	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	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6292	6292	6292
5°	6299	6305	6310
10°	6257	6290	6296
15°	6274	6307	6274
20°	6277	6243	6260
25°	6259	6247	6223
30°	6270	6227	6196
35°	6281	6169	6163
40°	6246	6211	6140
45°	6325	6142	6119
50°	6255	6095	6104
55°	6240	6080	6033
60°	6189	5899	5942
65°	6062	5705	5769
70°	5885	5555	5098
75°	5469	4928	4076
80°	4773	4246	4804
85°	3829	4570	4631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.2
10°-20°	318.4	9.1
20°-30°	484.7	13.9
30°-40°	591.2	16.9
40°-50°	625.7	17.9
50°-60°	579.6	16.6
60°-70°	451.5	12.9
70°-80°	253.3	7.2
80°-90°	78.1	2.2
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°	913.9	26.2
0°-40°	1505.1	43.1
0°-60°	2710.5	77.6
0°-90°	3493.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1166	1167	1167	1169	1168	110
15°	1126	1128	1132	1128	1126	318
25°	1054	1052	1052	1045	1048	487
35°	956	948	939	937	938	597
45°	831	821	807	805	804	636
55°	665	660	648	639	643	594
65°	476	467	448	451	453	471
75°	263	255	237	212	196	277
85°	62	64	74	75	75	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169	1169	1169	1169	1169
2.5°	1169	1167	1169	1168	1169
5°	1166	1167	1167	1169	1168
7.5°	1153	1158	1162	1161	1158
10°	1145	1150	1151	1149	1152
12.5°	1144	1145	1140	1143	1141
15°	1126	1128	1132	1128	1126
17.5°	1108	1112	1113	1110	1114
20°	1096	1099	1090	1094	1093
22.5°	1076	1077	1079	1072	1071
25°	1054	1052	1052	1045	1048
27.5°	1036	1029	1021	1025	1023
30°	1009	1008	1002	998	997
32.5°	977	978	976	967	968
35°	956	948	939	937	938
37.5°	929	922	912	909	910
40°	889	888	884	872	874
42.5°	858	852	842	837	840
45°	831	821	807	805	804
47.5°	786	784	775	764	768
50°	747	743	728	722	729
52.5°	714	704	686	685	686
55°	665	660	648	639	643
57.5°	617	613	596	593	598
60°	575	568	548	547	552
62.5°	525	520	502	502	507
65°	476	467	448	451	453
67.5°	426	415	398	395	389
70°	374	363	353	334	324
72.5°	317	309	298	269	259
75°	263	255	237	212	196
77.5°	206	203	182	172	176
80°	154	153	137	150	155
82.5°	105	101	111	117	117
85°	62	64	74	75	75
87.5°	25	29	34	36	36
90°	0	0	0	0	0

(END OF REPORT)