

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: P393356

Luminaire Tested: **22EN-LD2-39-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393356
Test Lab: INNOVATION CENTER (G2)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-39-UNV-L83050-W2A-1-U (3500K)
Description: 2X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3931.3 lumens
Efficiency: N/A
Efficacy: 130.2 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

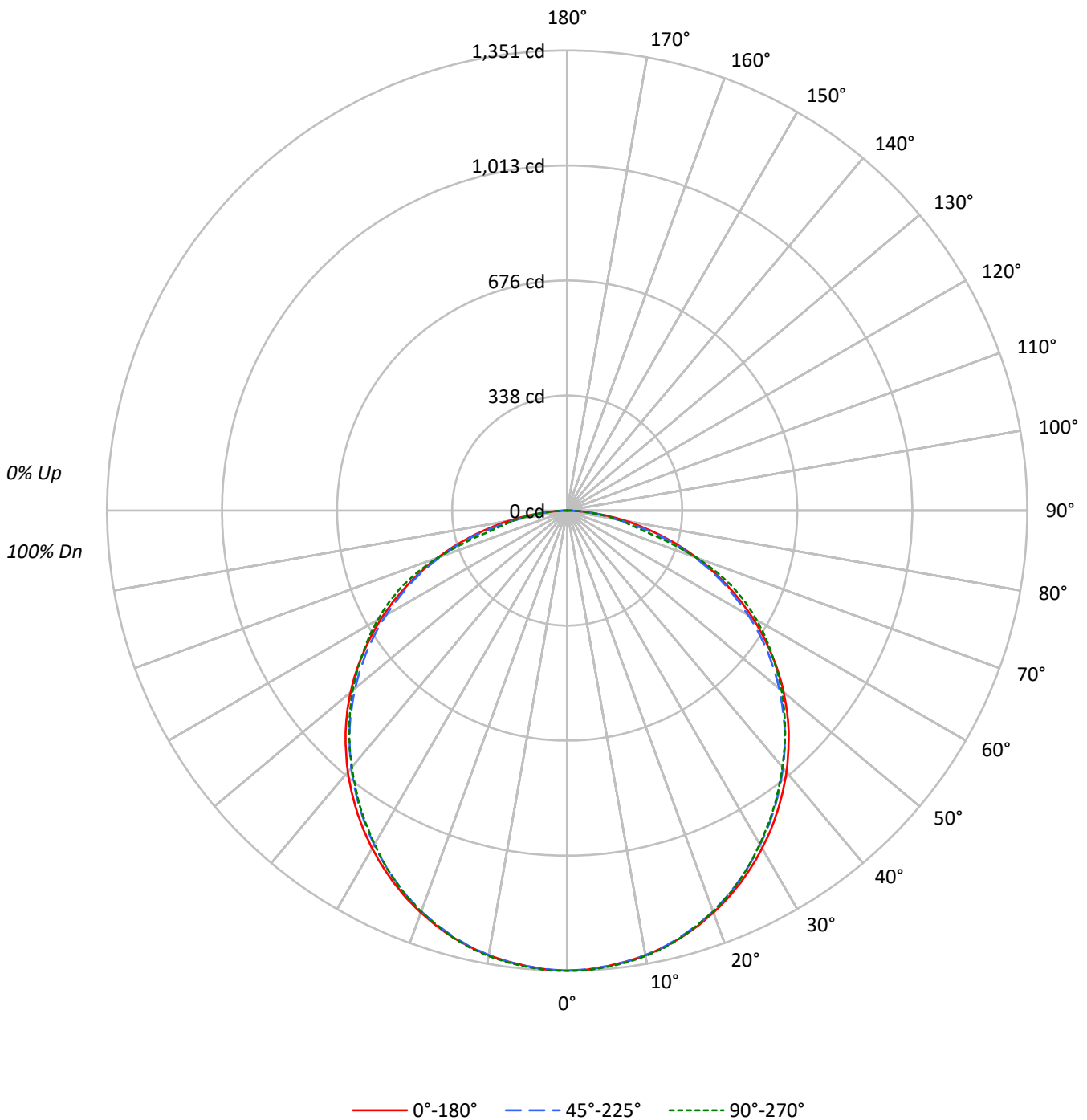
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	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	40	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°	3636	3636	3636
5°	3628	3628	3633
10°	3623	3621	3629
15°	3613	3605	3613
20°	3597	3585	3588
25°	3578	3554	3557
30°	3558	3521	3514
35°	3538	3492	3482
40°	3520	3464	3453
45°	3501	3436	3444
50°	3475	3404	3441
55°	3434	3364	3439
60°	3380	3305	3455
65°	3292	3235	3445
70°	3171	3116	3179
75°	2984	2859	2433
80°	2681	2263	2402
85°	1914	1945	1945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	3.2
10°-20°	365.4	9.3
20°-30°	552.3	14.0
30°-40°	666.5	17.0
40°-50°	699.4	17.8
50°-60°	647.2	16.5
60°-70°	510.9	13.0
70°-80°	286.1	7.3
80°-90°	75.7	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°	1045.4	26.6
0°-40°	1711.9	43.5
0°-60°	3058.6	77.8
0°-90°	3931.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3931.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1343	1341	1343	1343	1345	128
15°	1297	1296	1294	1294	1297	366
25°	1205	1201	1197	1194	1198	555
35°	1077	1072	1063	1057	1060	674
45°	920	914	903	898	905	709
55°	732	726	717	722	733	654
65°	517	513	508	524	541	511
75°	287	284	275	246	234	304
85°	62	62	63	63	63	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351	1351	1351	1351	1351
2.5°	1349	1347	1348	1349	1351
5°	1343	1341	1343	1343	1345
7.5°	1335	1334	1336	1336	1338
10°	1326	1324	1325	1325	1328
12.5°	1313	1312	1312	1312	1315
15°	1297	1296	1294	1294	1297
17.5°	1278	1276	1275	1273	1275
20°	1256	1254	1252	1250	1253
22.5°	1232	1230	1226	1223	1227
25°	1205	1201	1197	1194	1198
27.5°	1176	1171	1166	1163	1166
30°	1145	1140	1133	1128	1131
32.5°	1112	1107	1099	1094	1096
35°	1077	1072	1063	1057	1060
37.5°	1040	1035	1025	1019	1022
40°	1002	996	986	980	983
42.5°	961	956	945	938	945
45°	920	914	903	898	905
47.5°	876	869	858	856	864
50°	830	824	813	812	822
52.5°	782	775	765	767	778
55°	732	726	717	722	733
57.5°	680	675	666	676	689
60°	628	622	614	627	642
62.5°	574	567	560	577	594
65°	517	513	508	524	541
67.5°	460	457	453	468	478
70°	403	399	396	401	404
72.5°	348	341	339	326	320
75°	287	284	275	246	234
77.5°	229	225	205	184	185
80°	173	167	146	153	155
82.5°	118	113	108	108	106
85°	62	62	63	63	63
87.5°	25	27	27	27	27
90°	0	0	0	0	0

(END OF REPORT)