

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: P393388

Luminaire Tested: **22EN-LD2-43-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393388
Test Lab: INNOVATION CENTER (G2)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43-UNV-L83050-W2A-1-U (3500K)
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4297.0 lumens
Efficiency: N/A
Efficacy: 129.4 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

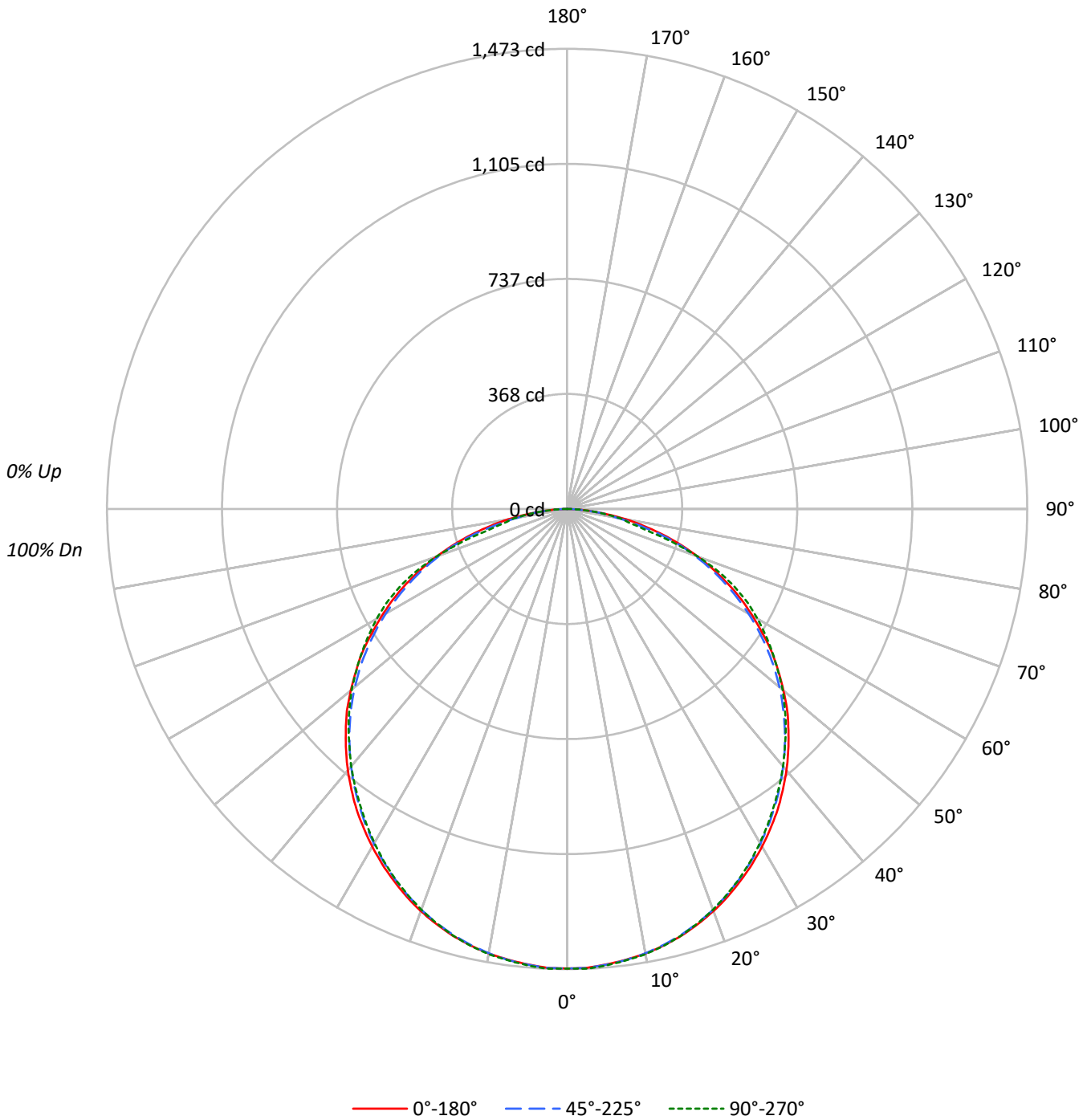
Input Watts (W): 33.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	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	45	39	50	44	39	37
7	64	51	42	35	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	39	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°	3958	3958	3958
5°	3952	3955	3960
10°	3948	3946	3954
15°	3939	3931	3936
20°	3923	3909	3909
25°	3899	3878	3875
30°	3878	3844	3834
35°	3860	3811	3798
40°	3836	3780	3776
45°	3813	3749	3768
50°	3785	3713	3768
55°	3758	3669	3767
60°	3687	3611	3789
65°	3623	3528	3776
70°	3493	3415	3501
75°	3296	3119	2714
80°	2960	2479	2665
85°	2192	2254	2161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	3.2
10°-20°	398.3	9.3
20°-30°	602.5	14.0
30°-40°	727.5	16.9
40°-50°	763.8	17.8
50°-60°	707.2	16.5
60°-70°	559.6	13.0
70°-80°	314.7	7.3
80°-90°	84.2	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°	1140.0	26.5
0°-40°	1867.5	43.5
0°-60°	3338.4	77.7
0°-90°	4297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1463	1462	1464	1464	1466	139
15°	1414	1412	1411	1411	1413	399
25°	1313	1311	1306	1304	1305	606
35°	1175	1170	1160	1154	1156	735
45°	1002	997	985	982	990	773
55°	801	793	782	789	803	713
65°	569	562	554	575	593	562
75°	317	312	300	274	261	335
85°	71	69	73	69	70	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471	1471	1471	1471	1471
2.5°	1470	1469	1470	1470	1473
5°	1463	1462	1464	1464	1466
7.5°	1455	1454	1456	1456	1457
10°	1445	1443	1444	1445	1447
12.5°	1431	1429	1429	1430	1432
15°	1414	1412	1411	1411	1413
17.5°	1393	1390	1390	1388	1390
20°	1370	1367	1365	1363	1365
22.5°	1343	1340	1337	1335	1336
25°	1313	1311	1306	1304	1305
27.5°	1282	1279	1273	1269	1271
30°	1248	1244	1237	1232	1234
32.5°	1212	1208	1200	1194	1196
35°	1175	1170	1160	1154	1156
37.5°	1134	1130	1119	1113	1116
40°	1092	1088	1076	1071	1075
42.5°	1048	1044	1031	1026	1032
45°	1002	997	985	982	990
47.5°	956	949	937	935	945
50°	904	899	887	888	900
52.5°	852	848	836	840	851
55°	801	793	782	789	803
57.5°	742	737	727	738	753
60°	685	681	671	685	704
62.5°	629	621	612	632	652
65°	569	562	554	575	593
67.5°	507	500	494	513	526
70°	444	438	434	440	445
72.5°	381	375	372	358	354
75°	317	312	300	274	261
77.5°	253	247	227	202	203
80°	191	184	160	167	172
82.5°	130	125	120	118	119
85°	71	69	73	69	70
87.5°	29	30	32	31	31
90°	0	0	0	0	0

(END OF REPORT)