

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: P393316

Luminaire Tested: **22EN-LD2-34-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-34-UNV-L82765-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: 3247.7 lumens
Efficiency: N/A
Efficacy: 126.4 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

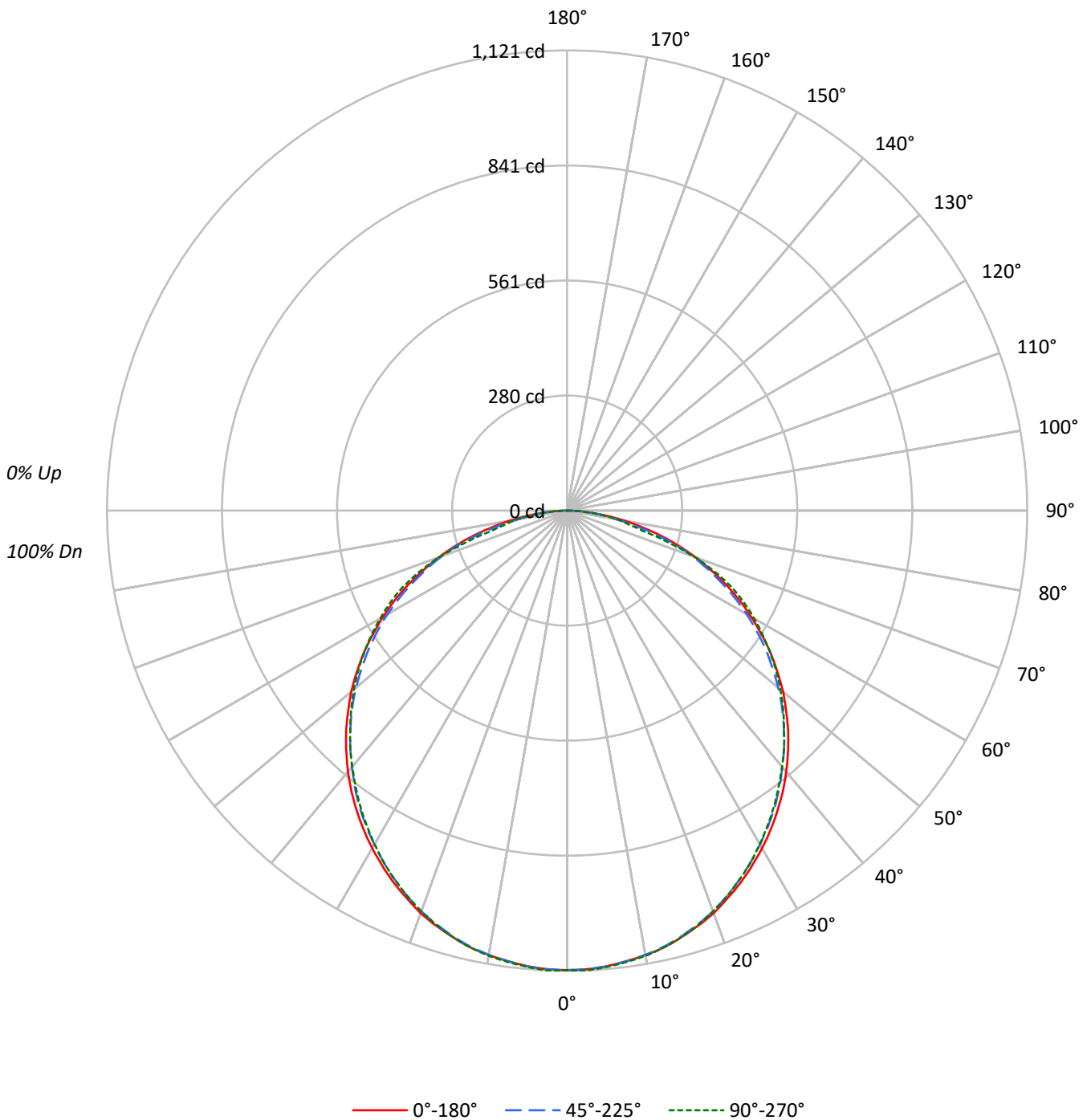
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393316

CATALOG NUMBER: 22EN-LD2-34-UNV-L82765-W2A-1-U (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P393316

CATALOG NUMBER: 22EN-LD2-34-UNV-L82765-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°	3013	3013	3013
5°	3009	3011	3014
10°	3005	3002	3010
15°	2997	2992	2997
20°	2989	2975	2975
25°	2970	2947	2947
30°	2952	2919	2916
35°	2934	2897	2887
40°	2918	2865	2861
45°	2898	2840	2844
50°	2875	2811	2839
55°	2839	2773	2835
60°	2783	2722	2834
65°	2720	2641	2822
70°	2615	2556	2615
75°	2452	2314	1980
80°	2202	1849	1982
85°	1636	1667	1636



TEST NUMBER: P393316

CATALOG NUMBER: 22EN-LD2-34-UNV-L82765-W2A-1-U (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	3.3
10°-20°	303.2	9.3
20°-30°	458.3	14.1
30°-40°	552.7	17.0
40°-50°	578.9	17.8
50°-60°	533.7	16.4
60°-70°	418.9	12.9
70°-80°	233.7	7.2
80°-90°	62.5	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°	867.3	26.7
0°-40°	1420.1	43.7
0°-60°	2532.6	78.0
0°-90°	3247.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3247.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1114	1113	1115	1115	1116	106
15°	1076	1074	1074	1074	1076	304
25°	1000	996	993	992	993	461
35°	893	889	882	877	879	559
45°	762	756	746	744	747	587
55°	605	599	591	595	604	540
65°	427	420	415	429	443	422
75°	236	231	223	200	190	249
85°	53	51	54	52	53	66
90°	0	0	0	0	0	



TEST NUMBER: P393316

CATALOG NUMBER: 22EN-LD2-34-UNV-L82765-W2A-1-U (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1119.5	1119.5	1119.5	1119.5	1119.5
2.5°	1118.5	1117.6	1118.5	1119.5	1121.4
5°	1113.8	1112.9	1114.8	1114.8	1115.7
7.5°	1107.2	1106.2	1107.2	1108.1	1109.1
10°	1099.6	1098.7	1098.7	1099.6	1101.5
12.5°	1090.1	1088.2	1088.2	1088.2	1090.1
15°	1075.9	1074.0	1074.0	1074.0	1075.9
17.5°	1060.8	1058.9	1057.0	1057.0	1058.9
20°	1043.7	1040.9	1039.0	1038.0	1039.0
22.5°	1021.9	1020.0	1017.2	1015.3	1017.2
25°	1000.2	996.4	992.6	991.6	992.6
27.5°	975.5	971.7	967.0	965.1	967.0
30°	950.0	945.2	939.5	936.7	938.6
32.5°	922.5	918.7	911.1	908.3	909.2
35°	893.1	889.3	881.8	877.0	878.9
37.5°	862.8	858.1	849.6	844.8	846.7
40°	830.6	824.9	815.5	811.7	814.5
42.5°	796.5	791.8	782.3	778.5	782.3
45°	761.5	755.8	746.3	743.5	747.3
47.5°	723.6	719.8	710.3	709.4	713.2
50°	686.7	680.0	671.5	672.5	678.1
52.5°	645.9	640.2	630.8	634.6	642.1
55°	605.2	598.6	591.0	594.8	604.3
57.5°	561.6	556.9	548.4	554.1	565.4
60°	517.1	513.3	505.8	515.2	526.6
62.5°	473.6	466.9	460.3	472.6	485.9
65°	427.1	420.5	414.8	429.0	443.2
67.5°	378.8	374.1	369.4	380.7	390.2
70°	332.4	327.7	324.9	326.8	332.4
72.5°	285.1	280.3	277.5	267.1	260.5
75°	235.8	231.1	222.6	199.8	190.4
77.5°	187.5	184.7	167.6	147.7	150.6
80°	142.1	137.3	119.3	123.1	127.9
82.5°	96.6	91.9	90.0	87.1	88.1
85°	53.0	51.1	54.0	52.1	53.0
87.5°	20.8	21.8	23.7	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)