

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: P#

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3201.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

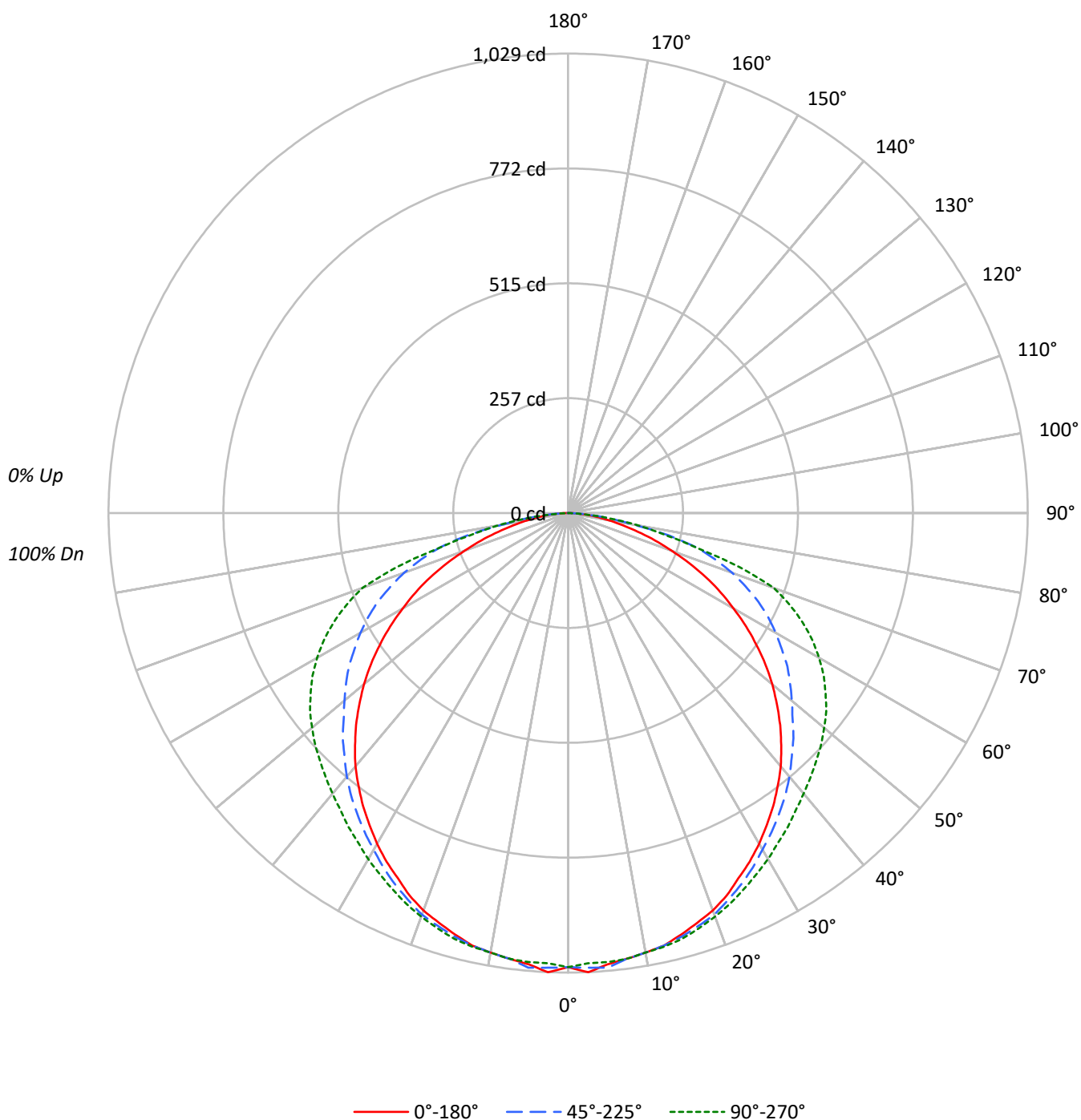
Input Watts (W): 36.41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-39-SQP-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-39-SQP-UNV-L850-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2736	2736	2736
5°	2728	2743	2715
10°	2707	2697	2707
15°	2686	2685	2713
20°	2664	2672	2706
25°	2618	2637	2698
30°	2582	2598	2703
35°	2541	2575	2722
40°	2498	2555	2766
45°	2433	2536	2847
50°	2357	2524	2957
55°	2253	2553	3081
60°	2118	2575	3214
65°	1959	2598	3331
70°	1702	2571	3388
75°	1416	2433	2570
80°	1111	1623	1921
85°	782	849	878



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-39-SQP-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	3.0
10°-20°	277.2	8.7
20°-30°	422.5	13.2
30°-40°	516.9	16.1
40°-50°	556.2	17.4
50°-60°	538.8	16.8
60°-70°	456.4	14.3
70°-80°	275.9	8.6
80°-90°	60.6	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°	796.2	24.9
0°-40°	1313.2	41.0
0°-60°	2408.1	75.2
0°-90°	3201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1014	1014	1022	1017	1009	96
15°	977	979	982	984	987	276
25°	902	907	917	925	930	417
35°	800	805	823	845	858	501
45°	671	684	713	758	786	517
55°	515	537	599	669	704	460
65°	341	378	470	544	579	335
75°	162	219	296	301	293	174
85°	40	47	50	47	45	45
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-39-SQP-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1029.2	1026.7	1019.2	1014.2	1009.3
5°	1014.2	1014.2	1021.7	1016.7	1009.3
7.5°	1006.8	1006.8	1006.8	1019.2	1006.8
10°	999.3	1001.8	999.3	1009.3	999.3
12.5°	991.9	991.9	991.9	994.4	994.4
15°	977.0	979.4	981.9	984.4	986.9
17.5°	962.0	964.5	969.5	972.0	974.5
20°	947.1	949.6	957.1	957.1	962.0
22.5°	927.2	927.2	937.2	939.7	947.1
25°	902.4	907.3	917.3	924.7	929.7
27.5°	880.0	885.0	894.9	904.9	912.3
30°	855.1	860.1	870.1	885.0	894.9
32.5°	827.8	832.8	847.7	865.1	875.0
35°	800.5	805.4	822.8	845.2	857.6
37.5°	770.6	778.1	798.0	822.8	837.7
40°	740.8	748.3	770.6	798.0	820.3
42.5°	706.0	715.9	740.8	778.1	802.9
45°	671.2	683.6	713.4	758.2	785.5
47.5°	633.9	646.3	681.1	738.3	768.1
50°	596.6	611.5	653.8	715.9	748.3
52.5°	556.8	571.8	626.4	693.6	728.4
55°	514.6	537.0	599.1	668.7	703.5
57.5°	472.3	497.2	566.8	641.4	678.6
60°	427.6	457.4	537.0	611.5	648.8
62.5°	385.3	417.6	504.6	579.2	616.5
65°	340.6	377.9	469.8	544.4	579.2
67.5°	293.3	340.6	430.1	502.1	537.0
70°	246.1	300.8	390.3	457.4	489.7
72.5°	203.8	261.0	345.5	402.7	402.7
75°	161.6	218.8	295.8	300.8	293.3
77.5°	124.3	179.0	231.2	211.3	216.3
80°	92.0	136.7	146.7	154.1	159.1
82.5°	62.1	92.0	94.5	99.4	99.4
85°	39.8	47.2	49.7	47.2	44.7
87.5°	17.4	19.9	14.9	9.9	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)