

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-L835-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-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2901.2 lumens
Efficiency: N/A
Efficacy: 79.7 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

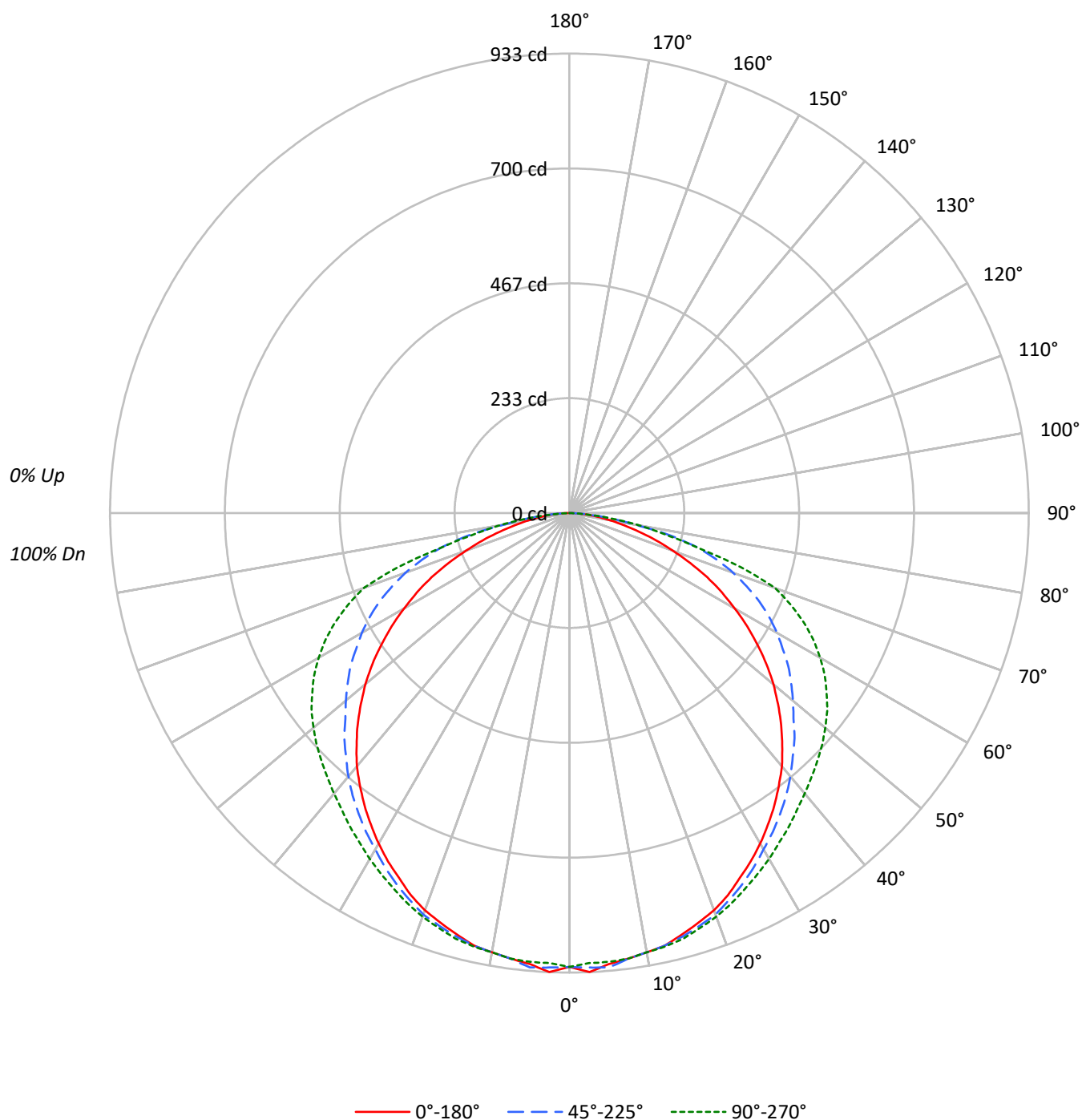
Input Watts (W): 36.41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2480	2480	2480
5°	2472	2486	2460
10°	2453	2444	2453
15°	2434	2433	2459
20°	2414	2422	2452
25°	2373	2390	2445
30°	2341	2354	2450
35°	2303	2334	2467
40°	2264	2316	2507
45°	2205	2298	2581
50°	2136	2288	2680
55°	2042	2314	2792
60°	1919	2334	2912
65°	1775	2354	3019
70°	1543	2330	3070
75°	1283	2205	2330
80°	1007	1470	1741
85°	707	770	798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.0
10°-20°	251.3	8.7
20°-30°	382.9	13.2
30°-40°	468.5	16.1
40°-50°	504.1	17.4
50°-60°	488.3	16.8
60°-70°	413.7	14.3
70°-80°	250.0	8.6
80°-90°	54.9	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°	721.7	24.9
0°-40°	1190.2	41.0
0°-60°	2182.6	75.2
0°-90°	2901.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2901.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	919	919	926	922	915	87
15°	885	888	890	892	894	250
25°	818	822	831	838	843	378
35°	726	730	746	766	777	454
45°	608	620	647	687	712	469
55°	466	487	543	606	638	417
65°	309	342	426	493	525	304
75°	146	198	268	273	266	157
85°	36	43	45	43	41	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.5	921.5	921.5	921.5	921.5
2.5°	932.8	930.5	923.7	919.2	914.7
5°	919.2	919.2	926.0	921.5	914.7
7.5°	912.5	912.5	912.5	923.7	912.5
10°	905.7	908.0	905.7	914.7	905.7
12.5°	899.0	899.0	899.0	901.2	901.2
15°	885.4	887.7	890.0	892.2	894.5
17.5°	871.9	874.2	878.7	880.9	883.2
20°	858.4	860.7	867.4	867.4	871.9
22.5°	840.4	840.4	849.4	851.7	858.4
25°	817.9	822.4	831.4	838.1	842.6
27.5°	797.6	802.1	811.1	820.1	826.9
30°	775.0	779.6	788.6	802.1	811.1
32.5°	750.3	754.8	768.3	784.1	793.1
35°	725.5	730.0	745.8	766.0	777.3
37.5°	698.4	705.2	723.2	745.8	759.3
40°	671.4	678.2	698.4	723.2	743.5
42.5°	639.9	648.9	671.4	705.2	727.7
45°	608.3	619.6	646.6	687.2	712.0
47.5°	574.5	585.8	617.3	669.2	696.2
50°	540.7	554.2	592.6	648.9	678.2
52.5°	504.7	518.2	567.8	628.6	660.1
55°	466.4	486.7	543.0	606.1	637.6
57.5°	428.1	450.6	513.7	581.3	615.1
60°	387.5	414.6	486.7	554.2	588.0
62.5°	349.2	378.5	457.4	525.0	558.8
65°	308.7	342.5	425.8	493.4	525.0
67.5°	265.9	308.7	389.8	455.1	486.7
70°	223.1	272.6	353.7	414.6	443.8
72.5°	184.7	236.6	313.2	365.0	365.0
75°	146.4	198.3	268.1	272.6	265.9
77.5°	112.7	162.2	209.5	191.5	196.0
80°	83.4	123.9	132.9	139.7	144.2
82.5°	56.3	83.4	85.6	90.1	90.1
85°	36.0	42.8	45.1	42.8	40.6
87.5°	15.8	18.0	13.5	9.0	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)