

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-LD5-24-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-LD5-24-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

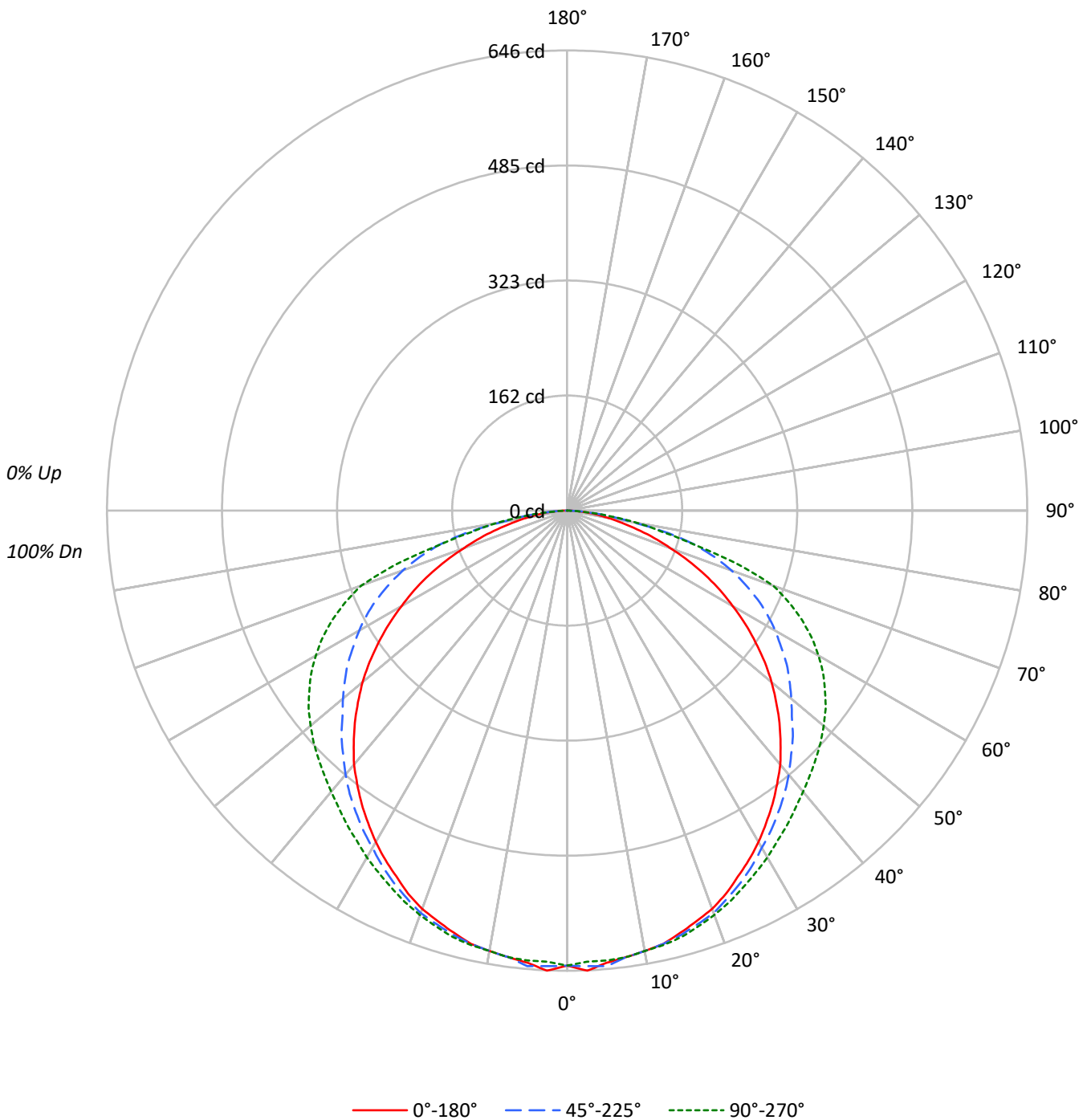
Lumens per Lamp: N/A
Luminaire Lumens: 2010.8 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 19.62
Input Voltage (V): NR
Input Current (A_{in}): 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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1719	1719	1719
5°	1713	1723	1705
10°	1700	1694	1700
15°	1687	1686	1704
20°	1673	1678	1700
25°	1645	1656	1694
30°	1622	1632	1698
35°	1596	1618	1710
40°	1569	1605	1737
45°	1528	1593	1789
50°	1481	1586	1857
55°	1415	1604	1935
60°	1330	1617	2019
65°	1230	1632	2092
70°	1069	1615	2128
75°	889	1528	1615
80°	698	1019	1206
85°	491	533	552



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.0
10°-20°	174.2	8.7
20°-30°	265.4	13.2
30°-40°	324.7	16.1
40°-50°	349.4	17.4
50°-60°	338.4	16.8
60°-70°	286.7	14.3
70°-80°	173.3	8.6
80°-90°	38.1	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°	500.2	24.9
0°-40°	824.9	41.0
0°-60°	1512.7	75.2
0°-90°	2010.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	637	637	642	639	634	61
15°	614	615	617	618	620	173
25°	567	570	576	581	584	262
35°	503	506	517	531	539	315
45°	422	429	448	476	494	325
55°	323	337	376	420	442	289
65°	214	237	295	342	364	211
75°	102	137	186	189	184	109
85°	25	30	31	30	28	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.7	638.7	638.7	638.7	638.7
2.5°	646.5	644.9	640.2	637.1	634.0
5°	637.1	637.1	641.8	638.7	634.0
7.5°	632.4	632.4	632.4	640.2	632.4
10°	627.8	629.3	627.8	634.0	627.8
12.5°	623.1	623.1	623.1	624.6	624.6
15°	613.7	615.3	616.8	618.4	619.9
17.5°	604.3	605.9	609.0	610.6	612.1
20°	595.0	596.5	601.2	601.2	604.3
22.5°	582.5	582.5	588.7	590.3	595.0
25°	566.9	570.0	576.2	580.9	584.0
27.5°	552.8	555.9	562.2	568.4	573.1
30°	537.2	540.3	546.6	555.9	562.2
32.5°	520.0	523.1	532.5	543.4	549.7
35°	502.8	506.0	516.9	530.9	538.7
37.5°	484.1	488.8	501.3	516.9	526.3
40°	465.4	470.0	484.1	501.3	515.3
42.5°	443.5	449.7	465.4	488.8	504.4
45°	421.6	429.4	448.2	476.3	493.5
47.5°	398.2	406.0	427.9	463.8	482.5
50°	374.8	384.1	410.7	449.7	470.0
52.5°	349.8	359.2	393.5	435.7	457.5
55°	323.2	337.3	376.3	420.1	441.9
57.5°	296.7	312.3	356.0	402.9	426.3
60°	268.6	287.3	337.3	384.1	407.6
62.5°	242.0	262.3	317.0	363.8	387.3
65°	213.9	237.4	295.1	342.0	363.8
67.5°	184.3	213.9	270.2	315.4	337.3
70°	154.6	189.0	245.2	287.3	307.6
72.5°	128.0	164.0	217.1	253.0	253.0
75°	101.5	137.4	185.8	189.0	184.3
77.5°	78.1	112.4	145.2	132.7	135.9
80°	57.8	85.9	92.1	96.8	99.9
82.5°	39.0	57.8	59.3	62.5	62.5
85°	25.0	29.7	31.2	29.7	28.1
87.5°	10.9	12.5	9.4	6.2	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)