

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2008.4 lumens
Efficiency: N/A
Efficacy: 95.2 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

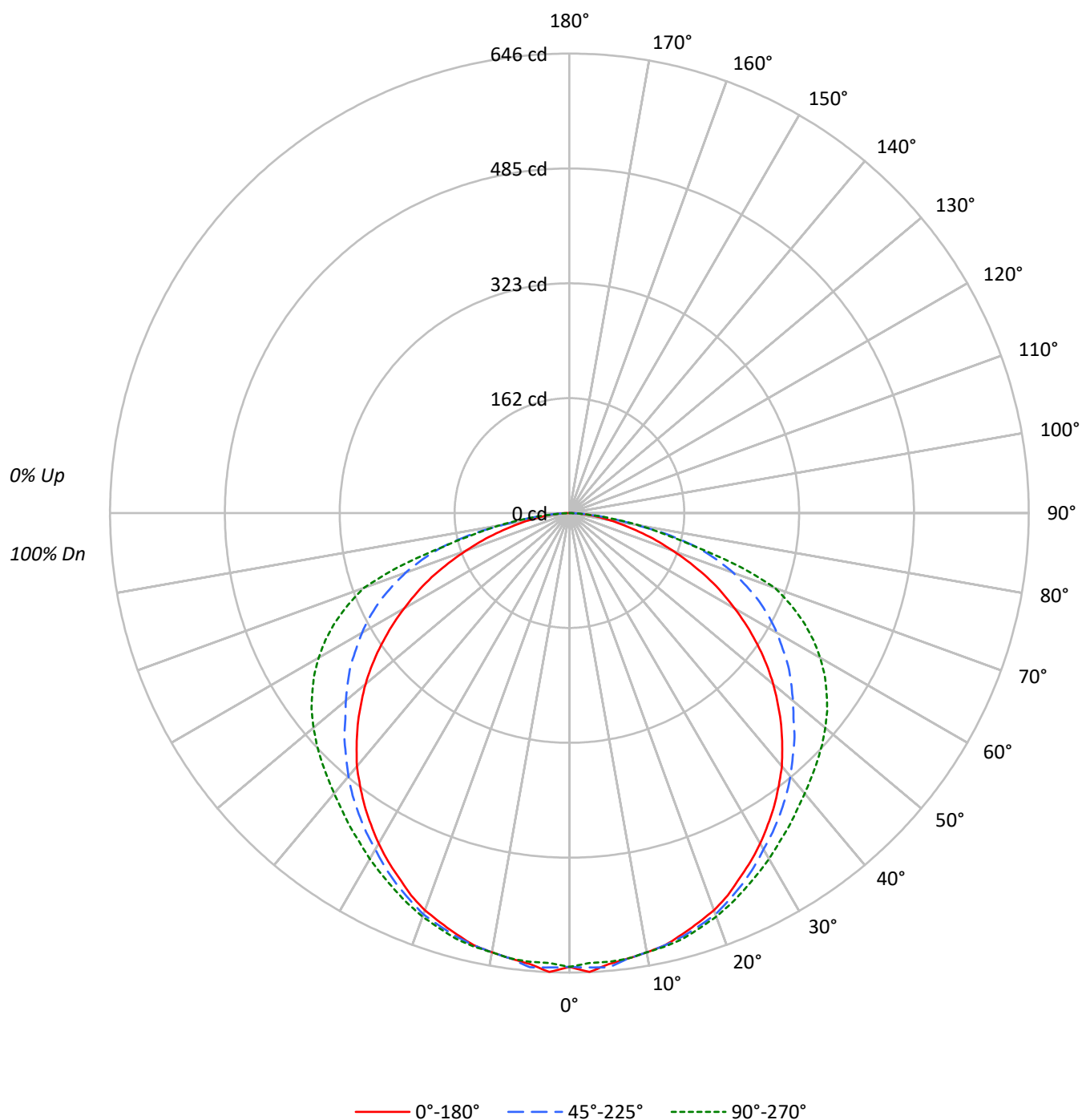
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1717	1717	1717
5°	1712	1721	1703
10°	1698	1692	1698
15°	1685	1684	1702
20°	1671	1676	1698
25°	1643	1654	1692
30°	1620	1630	1696
35°	1594	1616	1708
40°	1567	1603	1735
45°	1526	1591	1786
50°	1479	1584	1855
55°	1414	1602	1933
60°	1329	1615	2016
65°	1229	1630	2090
70°	1068	1613	2126
75°	888	1527	1612
80°	697	1018	1205
85°	491	533	552



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.0
10°-20°	173.9	8.7
20°-30°	265.1	13.2
30°-40°	324.3	16.1
40°-50°	349.0	17.4
50°-60°	338.0	16.8
60°-70°	286.4	14.3
70°-80°	173.1	8.6
80°-90°	38.0	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°	499.6	24.9
0°-40°	823.9	41.0
0°-60°	1510.9	75.2
0°-90°	2008.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	636	636	641	638	633	60
15°	613	614	616	618	619	173
25°	566	569	576	580	583	261
35°	502	505	516	530	538	314
45°	421	429	448	476	493	325
55°	323	337	376	420	441	288
65°	214	237	295	342	363	210
75°	101	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°	637.9	637.9	637.9	637.9	637.9
2.5°	645.7	644.1	639.5	636.4	633.2
5°	636.4	636.4	641.0	637.9	633.2
7.5°	631.7	631.7	631.7	639.5	631.7
10°	627.0	628.6	627.0	633.2	627.0
12.5°	622.3	622.3	622.3	623.9	623.9
15°	613.0	614.5	616.1	617.6	619.2
17.5°	603.6	605.2	608.3	609.8	611.4
20°	594.2	595.8	600.5	600.5	603.6
22.5°	581.8	581.8	588.0	589.6	594.2
25°	566.2	569.3	575.5	580.2	583.3
27.5°	552.1	555.2	561.5	567.7	572.4
30°	536.5	539.7	545.9	555.2	561.5
32.5°	519.4	522.5	531.9	542.8	549.0
35°	502.2	505.3	516.3	530.3	538.1
37.5°	483.5	488.2	500.7	516.3	525.6
40°	464.8	469.5	483.5	500.7	514.7
42.5°	442.9	449.2	464.8	488.2	503.8
45°	421.1	428.9	447.6	475.7	492.9
47.5°	397.7	405.5	427.4	463.2	481.9
50°	374.3	383.7	410.2	449.2	469.5
52.5°	349.4	358.7	393.0	435.2	457.0
55°	322.9	336.9	375.9	419.6	441.4
57.5°	296.3	311.9	355.6	402.4	425.8
60°	268.3	287.0	336.9	383.7	407.1
62.5°	241.8	262.0	316.6	363.4	386.8
65°	213.7	237.1	294.8	341.6	363.4
67.5°	184.0	213.7	269.8	315.1	336.9
70°	154.4	188.7	244.9	287.0	307.3
72.5°	127.9	163.8	216.8	252.7	252.7
75°	101.4	137.3	185.6	188.7	184.0
77.5°	78.0	112.3	145.1	132.6	135.7
80°	57.7	85.8	92.0	96.7	99.8
82.5°	39.0	57.7	59.3	62.4	62.4
85°	25.0	29.6	31.2	29.6	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)