

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-RDP-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-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

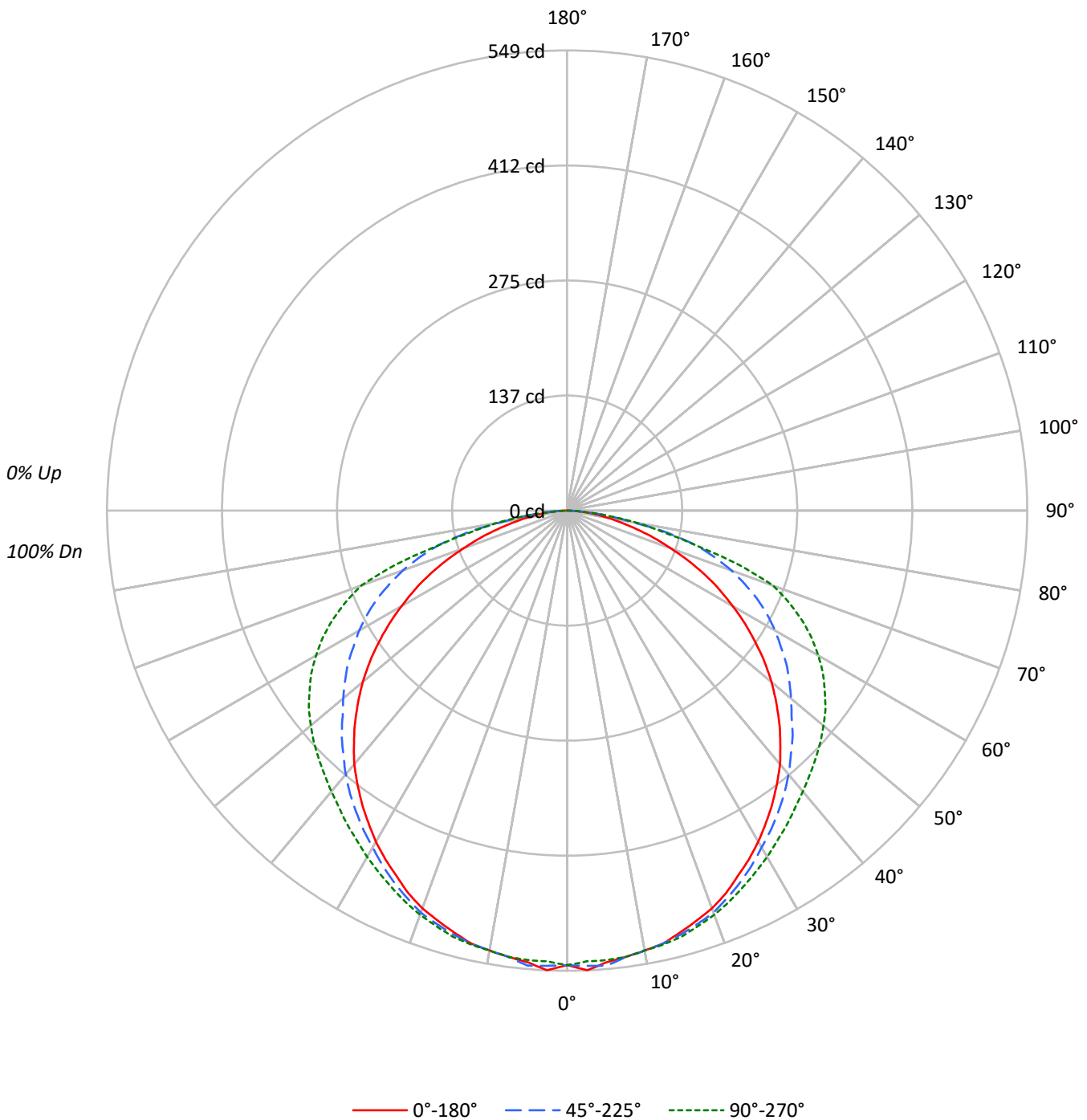
Lumens per Lamp: N/A
Luminaire Lumens: 1707.3 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 19.62
Input Voltage (V): NR
Input Current (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				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°	1459	1459	1459
5°	1455	1463	1448
10°	1444	1438	1444
15°	1433	1432	1447
20°	1421	1425	1443
25°	1396	1406	1439
30°	1377	1385	1441
35°	1355	1374	1452
40°	1332	1363	1475
45°	1298	1352	1519
50°	1257	1346	1577
55°	1202	1361	1643
60°	1129	1373	1714
65°	1044	1386	1776
70°	908	1372	1807
75°	755	1298	1371
80°	593	865	1025
85°	417	452	470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	3.0
10°-20°	147.9	8.7
20°-30°	225.3	13.2
30°-40°	275.7	16.1
40°-50°	296.6	17.4
50°-60°	287.4	16.8
60°-70°	243.4	14.3
70°-80°	147.1	8.6
80°-90°	32.3	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°	424.7	24.9
0°-40°	700.4	41.0
0°-60°	1284.4	75.2
0°-90°	1707.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	541	541	545	542	538	51
15°	521	522	524	525	526	147
25°	481	484	489	493	496	222
35°	427	430	439	451	457	267
45°	358	365	380	404	419	276
55°	274	286	320	357	375	245
65°	182	202	251	290	309	179
75°	86	117	158	160	156	93
85°	21	25	26	25	24	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	542.3	542.3	542.3	542.3	542.3
2.5°	548.9	547.6	543.6	540.9	538.3
5°	540.9	540.9	544.9	542.3	538.3
7.5°	537.0	537.0	537.0	543.6	537.0
10°	533.0	534.3	533.0	538.3	533.0
12.5°	529.0	529.0	529.0	530.3	530.3
15°	521.1	522.4	523.7	525.0	526.4
17.5°	513.1	514.4	517.1	518.4	519.7
20°	505.1	506.5	510.5	510.5	513.1
22.5°	494.5	494.5	499.8	501.2	505.1
25°	481.3	483.9	489.2	493.2	495.9
27.5°	469.4	472.0	477.3	482.6	486.6
30°	456.1	458.7	464.0	472.0	477.3
32.5°	441.5	444.2	452.1	461.4	466.7
35°	426.9	429.6	438.9	450.8	457.4
37.5°	411.0	415.0	425.6	438.9	446.8
40°	395.1	399.1	411.0	425.6	437.5
42.5°	376.5	381.8	395.1	415.0	428.2
45°	358.0	364.6	380.5	404.4	419.0
47.5°	338.1	344.7	363.3	393.8	409.7
50°	318.2	326.2	348.7	381.8	399.1
52.5°	297.0	304.9	334.1	369.9	388.5
55°	274.5	286.4	319.5	356.7	375.2
57.5°	251.9	265.2	302.3	342.1	362.0
60°	228.0	244.0	286.4	326.2	346.0
62.5°	205.5	222.7	269.1	308.9	328.8
65°	181.6	201.5	250.6	290.4	308.9
67.5°	156.5	181.6	229.4	267.8	286.4
70°	131.3	160.4	208.2	244.0	261.2
72.5°	108.7	139.2	184.3	214.8	214.8
75°	86.2	116.7	157.8	160.4	156.5
77.5°	66.3	95.5	123.3	112.7	115.3
80°	49.1	72.9	78.2	82.2	84.9
82.5°	33.1	49.1	50.4	53.0	53.0
85°	21.2	25.2	26.5	25.2	23.9
87.5°	9.3	10.6	8.0	5.3	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)