

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-LD5-20-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-LD5-20-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

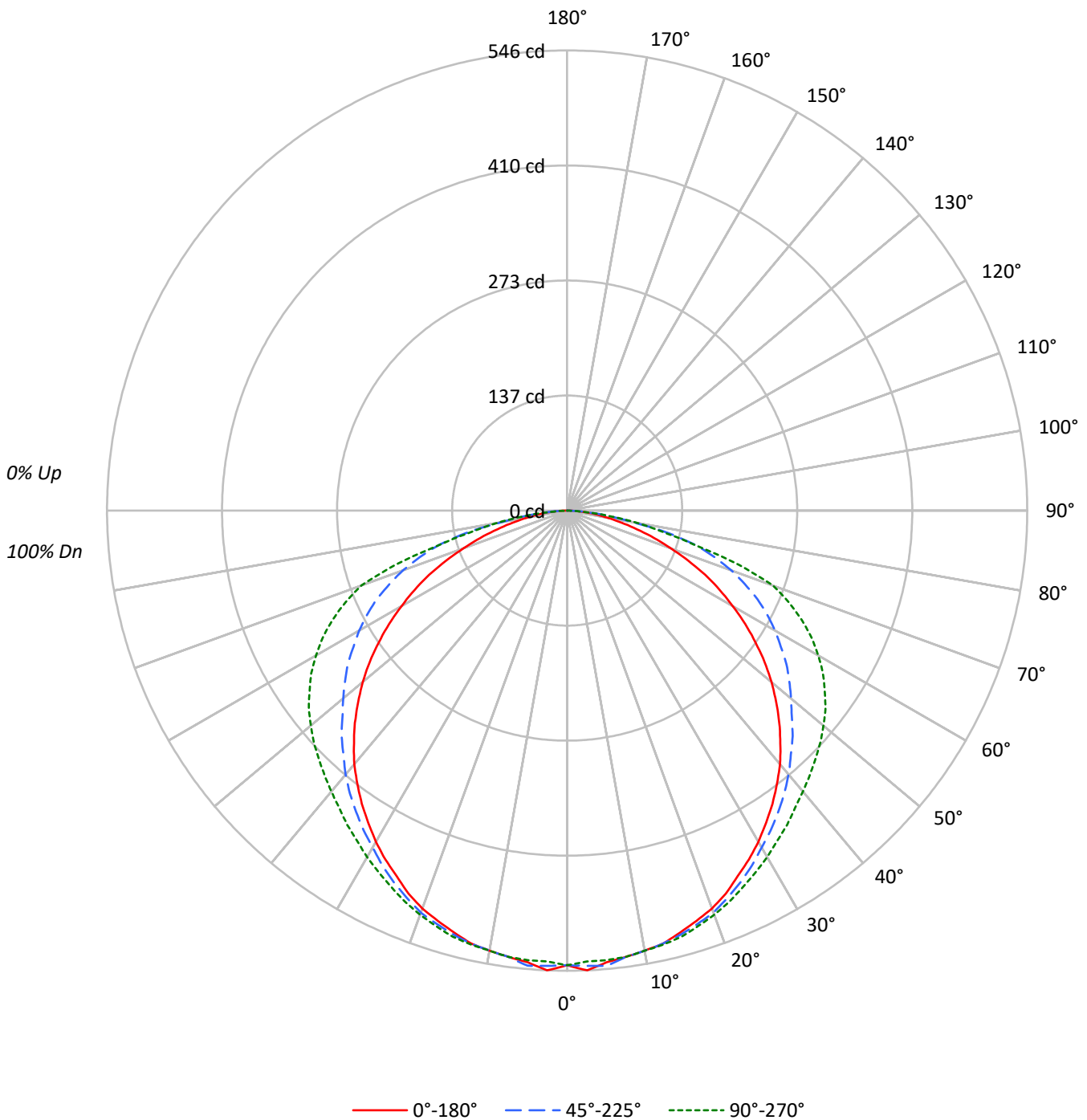
Lumens per Lamp: N/A
Luminaire Lumens: 1698.2 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 16.38
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°	1452	1452	1452
5°	1447	1455	1440
10°	1436	1431	1436
15°	1425	1424	1439
20°	1413	1417	1435
25°	1389	1399	1431
30°	1370	1378	1434
35°	1348	1366	1444
40°	1325	1356	1467
45°	1291	1345	1510
50°	1250	1339	1569
55°	1195	1354	1634
60°	1123	1366	1705
65°	1039	1378	1767
70°	903	1364	1797
75°	751	1291	1363
80°	589	861	1019
85°	415	451	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	3.0
10°-20°	147.1	8.7
20°-30°	224.1	13.2
30°-40°	274.2	16.1
40°-50°	295.1	17.4
50°-60°	285.8	16.8
60°-70°	242.1	14.3
70°-80°	146.4	8.6
80°-90°	32.2	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°	422.4	24.9
0°-40°	696.6	41.0
0°-60°	1277.5	75.2
0°-90°	1698.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1698.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	538	538	542	539	535	51
15°	518	520	521	522	524	146
25°	479	481	487	491	493	221
35°	425	427	436	448	455	266
45°	356	363	378	402	417	274
55°	273	285	318	355	373	244
65°	181	200	249	289	307	178
75°	86	116	157	160	156	92
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°	539.4	539.4	539.4	539.4	539.4
2.5°	546.0	544.7	540.7	538.1	535.4
5°	538.1	538.1	542.0	539.4	535.4
7.5°	534.1	534.1	534.1	540.7	534.1
10°	530.2	531.5	530.2	535.4	530.2
12.5°	526.2	526.2	526.2	527.5	527.5
15°	518.3	519.6	520.9	522.2	523.6
17.5°	510.4	511.7	514.3	515.7	517.0
20°	502.5	503.8	507.7	507.7	510.4
22.5°	491.9	491.9	497.2	498.5	502.5
25°	478.7	481.4	486.6	490.6	493.2
27.5°	466.9	469.5	474.8	480.0	484.0
30°	453.7	456.3	461.6	469.5	474.8
32.5°	439.2	441.8	449.7	458.9	464.2
35°	424.7	427.3	436.5	448.4	455.0
37.5°	408.8	412.8	423.3	436.5	444.4
40°	393.0	397.0	408.8	423.3	435.2
42.5°	374.5	379.8	393.0	412.8	426.0
45°	356.1	362.7	378.5	402.2	416.7
47.5°	336.3	342.9	361.4	391.7	407.5
50°	316.5	324.4	346.8	379.8	397.0
52.5°	295.4	303.3	332.3	367.9	386.4
55°	273.0	284.9	317.8	354.8	373.2
57.5°	250.6	263.8	300.7	340.3	360.0
60°	226.8	242.7	284.9	324.4	344.2
62.5°	204.4	221.6	267.7	307.3	327.1
65°	180.7	200.5	249.3	288.8	307.3
67.5°	155.6	180.7	228.2	266.4	284.9
70°	130.6	159.6	207.1	242.7	259.8
72.5°	108.1	138.5	183.3	213.6	213.6
75°	85.7	116.1	156.9	159.6	155.6
77.5°	65.9	95.0	122.6	112.1	114.7
80°	48.8	72.5	77.8	81.8	84.4
82.5°	33.0	48.8	50.1	52.8	52.8
85°	21.1	25.1	26.4	25.1	23.7
87.5°	9.2	10.6	7.9	5.3	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)