

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

Light Source: -
Ballast/Driver: -

Summary

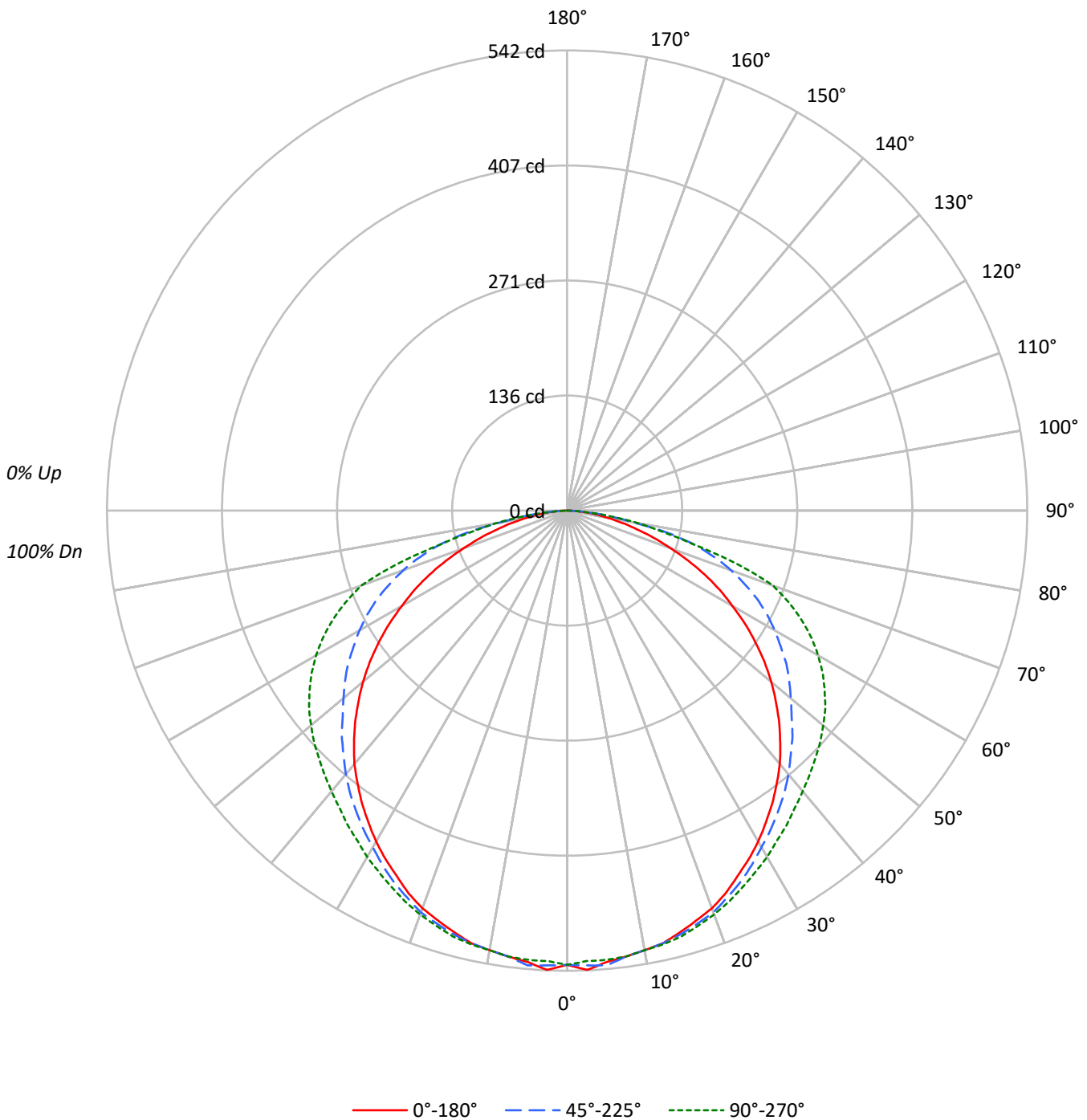
Lumens per Lamp: N/A
Luminaire Lumens: 1684.3 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 17.2
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°	1440	1440	1440
5°	1435	1443	1428
10°	1424	1419	1424
15°	1413	1413	1428
20°	1402	1406	1424
25°	1378	1387	1419
30°	1359	1367	1422
35°	1337	1355	1432
40°	1314	1345	1455
45°	1280	1334	1498
50°	1240	1328	1556
55°	1186	1343	1621
60°	1114	1355	1691
65°	1031	1367	1753
70°	896	1353	1783
75°	745	1281	1353
80°	584	854	1011
85°	411	447	462



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	3.0
10°-20°	145.9	8.7
20°-30°	222.3	13.2
30°-40°	272.0	16.1
40°-50°	292.7	17.4
50°-60°	283.5	16.8
60°-70°	240.2	14.3
70°-80°	145.2	8.6
80°-90°	31.9	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°	419.0	24.9
0°-40°	691.0	41.0
0°-60°	1267.1	75.2
0°-90°	1684.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1684.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	535	535	535	535	535	
5°	534	534	538	535	531	51
15°	514	515	517	518	519	145
25°	475	477	483	487	489	219
35°	421	424	433	445	451	263
45°	353	360	375	399	413	272
55°	271	282	315	352	370	242
65°	179	199	247	286	305	176
75°	85	115	156	158	154	91
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°	535.0	535.0	535.0	535.0	535.0
2.5°	541.5	540.2	536.3	533.7	531.1
5°	533.7	533.7	537.6	535.0	531.1
7.5°	529.8	529.8	529.8	536.3	529.8
10°	525.8	527.1	525.8	531.1	525.8
12.5°	521.9	521.9	521.9	523.2	523.2
15°	514.1	515.4	516.7	518.0	519.3
17.5°	506.2	507.5	510.1	511.5	512.8
20°	498.4	499.7	503.6	503.6	506.2
22.5°	487.9	487.9	493.1	494.4	498.4
25°	474.8	477.4	482.7	486.6	489.2
27.5°	463.1	465.7	470.9	476.1	480.1
30°	450.0	452.6	457.8	465.7	470.9
32.5°	435.6	438.2	446.0	455.2	460.4
35°	421.2	423.8	433.0	444.7	451.3
37.5°	405.5	409.4	419.9	433.0	440.8
40°	389.8	393.7	405.5	419.9	431.7
42.5°	371.5	376.7	389.8	409.4	422.5
45°	353.2	359.7	375.4	399.0	413.3
47.5°	333.6	340.1	358.4	388.5	404.2
50°	313.9	321.8	344.0	376.7	393.7
52.5°	293.0	300.9	329.6	364.9	383.3
55°	270.8	282.5	315.2	351.9	370.2
57.5°	248.5	261.6	298.2	337.5	357.1
60°	225.0	240.7	282.5	321.8	341.4
62.5°	202.7	219.8	265.5	304.8	324.4
65°	179.2	198.8	247.2	286.5	304.8
67.5°	154.4	179.2	226.3	264.2	282.5
70°	129.5	158.3	205.4	240.7	257.7
72.5°	107.3	137.3	181.8	211.9	211.9
75°	85.0	115.1	155.7	158.3	154.4
77.5°	65.4	94.2	121.6	111.2	113.8
80°	48.4	71.9	77.2	81.1	83.7
82.5°	32.7	48.4	49.7	52.3	52.3
85°	20.9	24.9	26.2	24.9	23.5
87.5°	9.2	10.5	7.8	5.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)