

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-L840-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-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

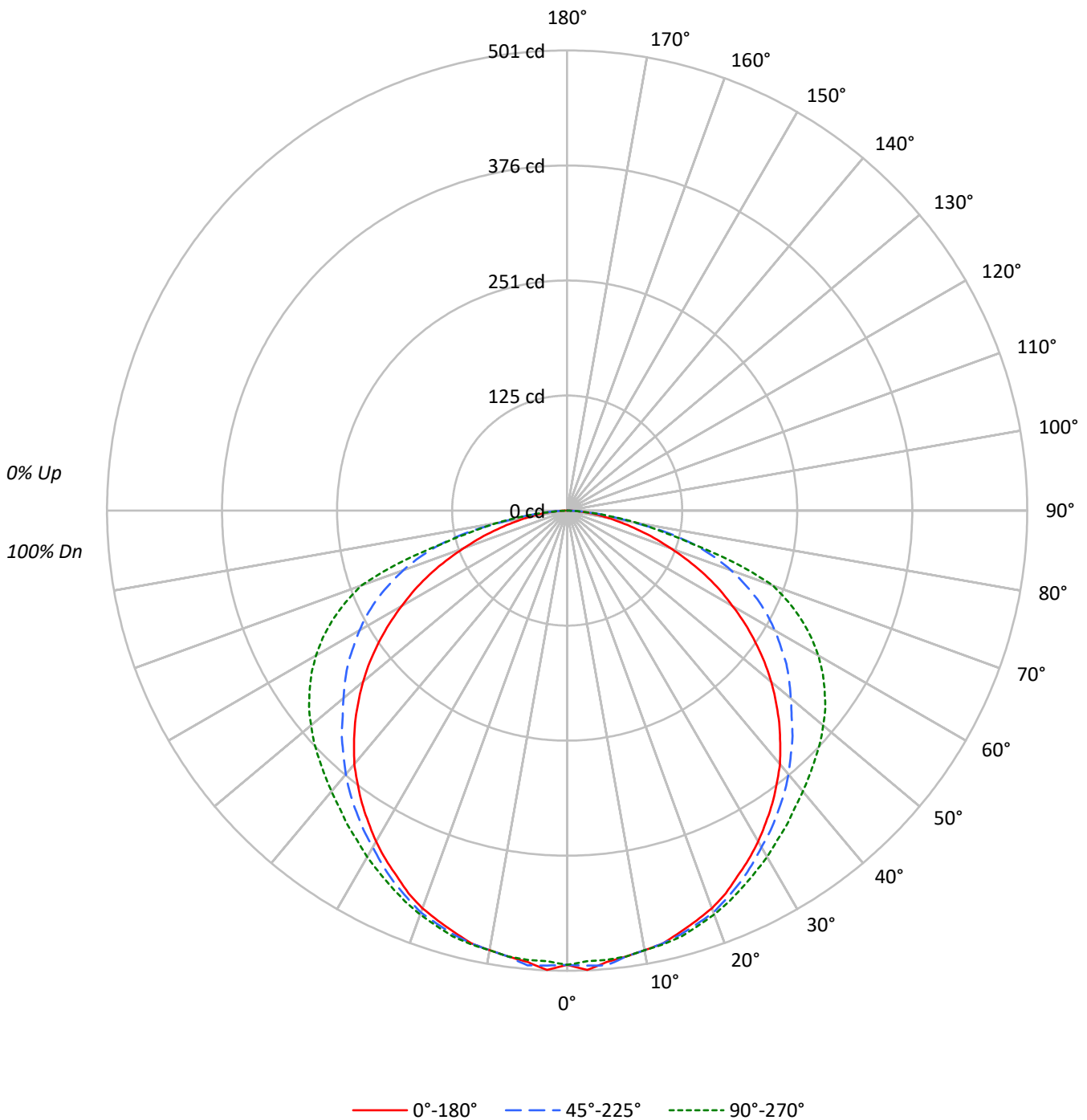
Lumens per Lamp: N/A
Luminaire Lumens: 1557.2 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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°	1331	1331	1331
5°	1327	1334	1321
10°	1317	1312	1317
15°	1306	1306	1320
20°	1296	1300	1316
25°	1274	1283	1312
30°	1256	1263	1315
35°	1236	1253	1324
40°	1215	1243	1346
45°	1183	1234	1385
50°	1147	1228	1438
55°	1096	1242	1498
60°	1030	1252	1563
65°	953	1263	1621
70°	828	1251	1648
75°	689	1184	1250
80°	540	789	934
85°	379	413	428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	3.0
10°-20°	134.9	8.7
20°-30°	205.5	13.2
30°-40°	251.5	16.1
40°-50°	270.6	17.4
50°-60°	262.1	16.8
60°-70°	222.0	14.3
70°-80°	134.2	8.6
80°-90°	29.5	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°	387.3	24.9
0°-40°	638.8	41.0
0°-60°	1171.4	75.2
0°-90°	1557.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	493	493	497	495	491	47
15°	475	476	478	479	480	134
25°	439	441	446	450	452	203
35°	389	392	400	411	417	244
45°	326	332	347	369	382	252
55°	250	261	291	325	342	224
65°	166	184	228	265	282	163
75°	79	106	144	146	143	84
85°	19	23	24	23	22	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	494.6	494.6	494.6	494.6	494.6
2.5°	500.6	499.4	495.8	493.4	491.0
5°	493.4	493.4	497.0	494.6	491.0
7.5°	489.7	489.7	489.7	495.8	489.7
10°	486.1	487.3	486.1	491.0	486.1
12.5°	482.5	482.5	482.5	483.7	483.7
15°	475.2	476.4	477.7	478.9	480.1
17.5°	468.0	469.2	471.6	472.8	474.0
20°	460.7	461.9	465.6	465.6	468.0
22.5°	451.1	451.1	455.9	457.1	460.7
25°	439.0	441.4	446.2	449.8	452.3
27.5°	428.1	430.5	435.3	440.2	443.8
30°	416.0	418.4	423.2	430.5	435.3
32.5°	402.7	405.1	412.4	420.8	425.7
35°	389.4	391.8	400.3	411.1	417.2
37.5°	374.9	378.5	388.2	400.3	407.5
40°	360.4	364.0	374.9	388.2	399.1
42.5°	343.4	348.3	360.4	378.5	390.6
45°	326.5	332.5	347.1	368.8	382.1
47.5°	308.4	314.4	331.3	359.1	373.7
50°	290.2	297.5	318.0	348.3	364.0
52.5°	270.9	278.1	304.7	337.4	354.3
55°	250.3	261.2	291.4	325.3	342.2
57.5°	229.8	241.9	275.7	312.0	330.1
60°	208.0	222.5	261.2	297.5	315.6
62.5°	187.4	203.2	245.5	281.8	299.9
65°	165.7	183.8	228.5	264.8	281.8
67.5°	142.7	165.7	209.2	244.3	261.2
70°	119.7	146.3	189.9	222.5	238.2
72.5°	99.2	127.0	168.1	195.9	195.9
75°	78.6	106.4	143.9	146.3	142.7
77.5°	60.5	87.1	112.5	102.8	105.2
80°	44.7	66.5	71.3	75.0	77.4
82.5°	30.2	44.7	46.0	48.4	48.4
85°	19.3	23.0	24.2	23.0	21.8
87.5°	8.5	9.7	7.3	4.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)