

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-L835-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-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

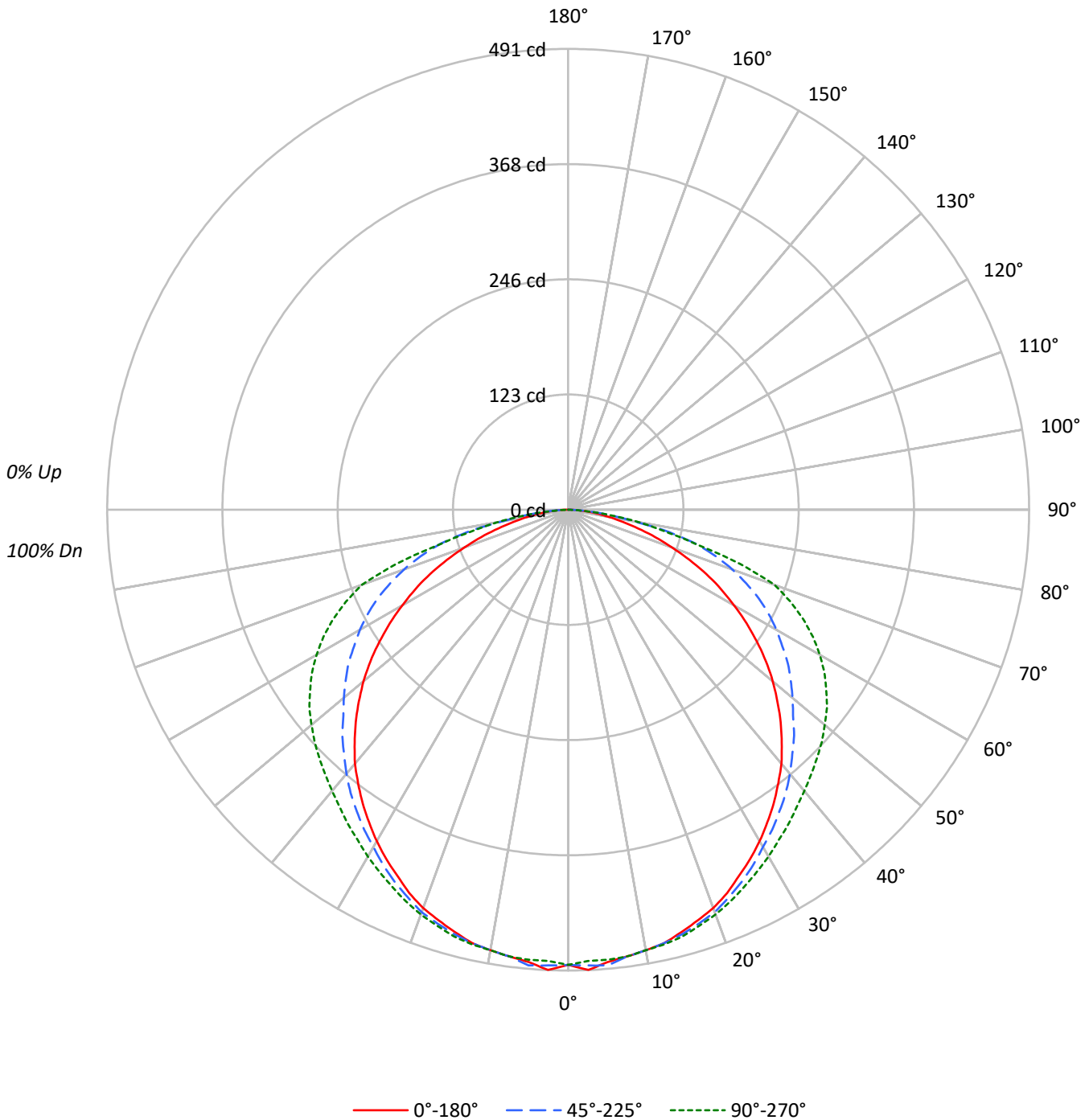
Lumens per Lamp: N/A
Luminaire Lumens: 1526.6 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

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°	1305	1305	1305
5°	1301	1308	1294
10°	1291	1286	1291
15°	1281	1280	1294
20°	1270	1274	1290
25°	1249	1258	1287
30°	1232	1239	1289
35°	1211	1228	1298
40°	1191	1219	1319
45°	1160	1210	1358
50°	1124	1204	1410
55°	1075	1217	1469
60°	1010	1228	1532
65°	934	1239	1588
70°	812	1226	1616
75°	676	1161	1226
80°	530	773	916
85°	373	405	418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	3.0
10°-20°	132.2	8.7
20°-30°	201.5	13.2
30°-40°	246.5	16.1
40°-50°	265.2	17.4
50°-60°	256.9	16.8
60°-70°	217.7	14.3
70°-80°	131.6	8.6
80°-90°	28.9	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°	379.7	24.9
0°-40°	626.3	41.0
0°-60°	1148.5	75.2
0°-90°	1526.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1526.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	484	484	487	485	481	46
15°	466	467	468	470	471	132
25°	430	433	438	441	443	199
35°	382	384	392	403	409	239
45°	320	326	340	362	375	247
55°	245	256	286	319	336	219
65°	162	180	224	260	276	160
75°	77	104	141	144	140	83
85°	19	22	24	22	21	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.9	484.9	484.9	484.9	484.9
2.5°	490.8	489.6	486.1	483.7	481.3
5°	483.7	483.7	487.3	484.9	481.3
7.5°	480.1	480.1	480.1	486.1	480.1
10°	476.6	477.8	476.6	481.3	476.6
12.5°	473.0	473.0	473.0	474.2	474.2
15°	465.9	467.1	468.3	469.5	470.7
17.5°	458.8	460.0	462.4	463.5	464.7
20°	451.7	452.9	456.4	456.4	458.8
22.5°	442.2	442.2	446.9	448.1	451.7
25°	430.4	432.7	437.5	441.0	443.4
27.5°	419.7	422.1	426.8	431.5	435.1
30°	407.8	410.2	414.9	422.1	426.8
32.5°	394.8	397.2	404.3	412.6	417.3
35°	381.7	384.1	392.4	403.1	409.0
37.5°	367.5	371.1	380.6	392.4	399.5
40°	353.3	356.8	367.5	380.6	391.2
42.5°	336.7	341.4	353.3	371.1	382.9
45°	320.1	326.0	340.3	361.6	374.6
47.5°	302.3	308.2	324.8	352.1	366.3
50°	284.5	291.6	311.8	341.4	356.8
52.5°	265.6	272.7	298.8	330.8	347.4
55°	245.4	256.1	285.7	318.9	335.5
57.5°	225.3	237.1	270.3	305.9	323.7
60°	203.9	218.1	256.1	291.6	309.4
62.5°	183.8	199.2	240.7	276.2	294.0
65°	162.4	180.2	224.1	259.6	276.2
67.5°	139.9	162.4	205.1	239.5	256.1
70°	117.4	143.5	186.1	218.1	233.6
72.5°	97.2	124.5	164.8	192.1	192.1
75°	77.1	104.3	141.1	143.5	139.9
77.5°	59.3	85.4	110.3	100.8	103.1
80°	43.9	65.2	69.9	73.5	75.9
82.5°	29.6	43.9	45.1	47.4	47.4
85°	19.0	22.5	23.7	22.5	21.3
87.5°	8.3	9.5	7.1	4.7	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)