

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-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-LD5-20-SQP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1539.1 lumens
Efficiency: N/A
Efficacy: 94.0 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

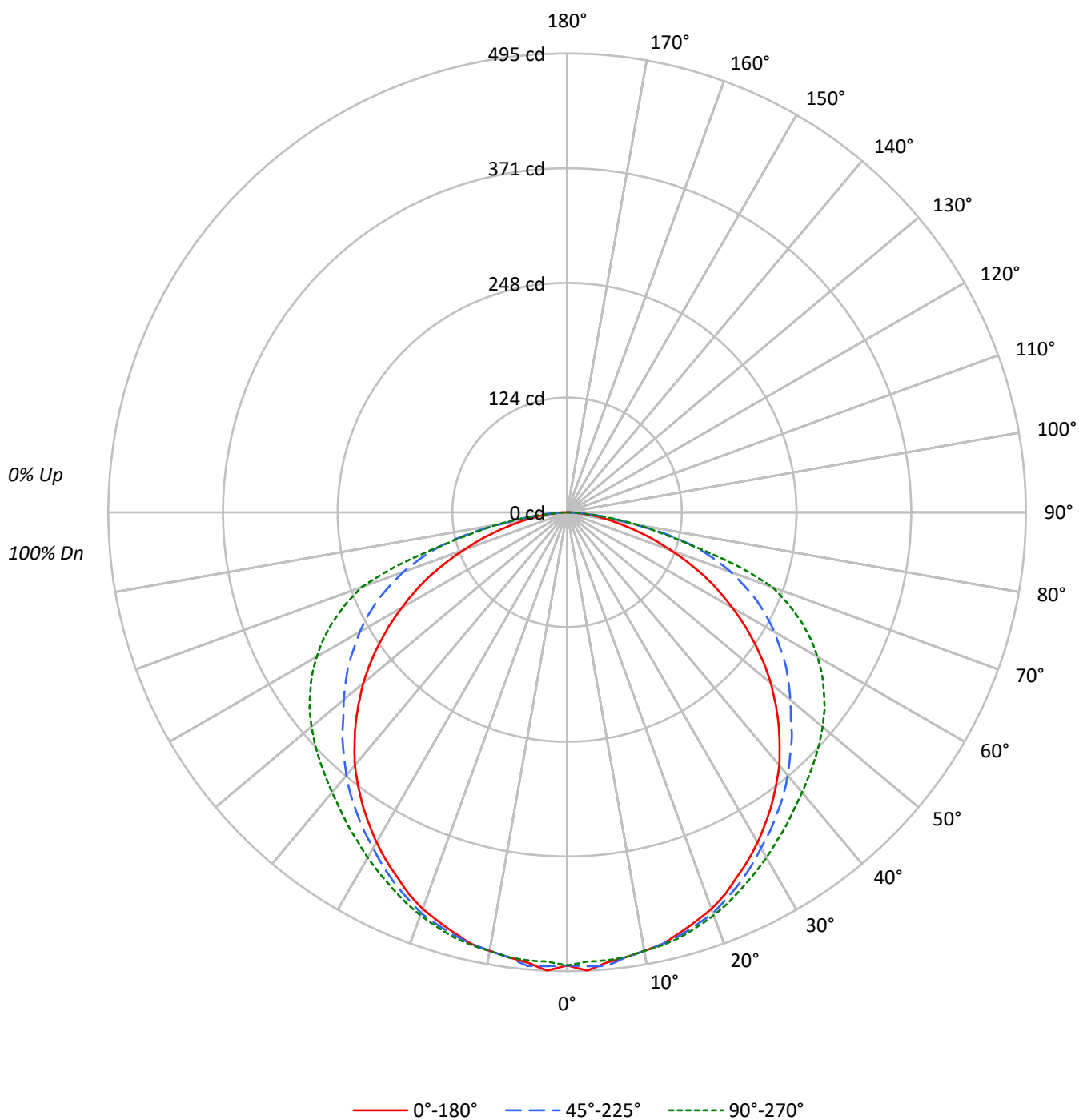
Input Watts (W): 16.38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1316	1316	1316
5°	1312	1319	1305
10°	1301	1297	1301
15°	1291	1291	1304
20°	1281	1285	1301
25°	1259	1268	1297
30°	1242	1249	1300
35°	1222	1238	1309
40°	1201	1229	1330
45°	1170	1219	1369
50°	1134	1214	1422
55°	1083	1228	1481
60°	1018	1238	1545
65°	942	1249	1602
70°	818	1237	1629
75°	681	1170	1235
80°	534	780	924
85°	375	408	422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	3.0
10°-20°	133.3	8.7
20°-30°	203.1	13.2
30°-40°	248.5	16.1
40°-50°	267.4	17.4
50°-60°	259.1	16.8
60°-70°	219.4	14.3
70°-80°	132.6	8.6
80°-90°	29.1	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°	382.9	24.9
0°-40°	631.4	41.0
0°-60°	1157.9	75.2
0°-90°	1539.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1539.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	488	488	491	489	485	46
15°	470	471	472	473	474	133
25°	434	436	441	445	447	200
35°	385	387	396	406	412	241
45°	323	329	343	365	378	249
55°	247	258	288	322	338	221
65°	164	182	226	262	278	161
75°	78	105	142	145	141	83
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°	488.9	488.9	488.9	488.9	488.9
2.5°	494.8	493.7	490.1	487.7	485.3
5°	487.7	487.7	491.3	488.9	485.3
7.5°	484.1	484.1	484.1	490.1	484.1
10°	480.5	481.7	480.5	485.3	480.5
12.5°	476.9	476.9	476.9	478.1	478.1
15°	469.7	470.9	472.1	473.3	474.5
17.5°	462.6	463.8	466.2	467.4	468.6
20°	455.4	456.6	460.2	460.2	462.6
22.5°	445.8	445.8	450.6	451.8	455.4
25°	433.9	436.3	441.1	444.6	447.0
27.5°	423.1	425.5	430.3	435.1	438.7
30°	411.2	413.6	418.3	425.5	430.3
32.5°	398.0	400.4	407.6	416.0	420.7
35°	384.9	387.3	395.6	406.4	412.4
37.5°	370.5	374.1	383.7	395.6	402.8
40°	356.2	359.8	370.5	383.7	394.4
42.5°	339.5	344.2	356.2	374.1	386.1
45°	322.7	328.7	343.0	364.6	377.7
47.5°	304.8	310.8	327.5	355.0	369.3
50°	286.9	294.0	314.4	344.2	359.8
52.5°	267.7	274.9	301.2	333.5	350.2
55°	247.4	258.2	288.1	321.5	338.3
57.5°	227.1	239.1	272.5	308.4	326.3
60°	205.6	219.9	258.2	294.0	312.0
62.5°	185.3	200.8	242.6	278.5	296.4
65°	163.8	181.7	225.9	261.8	278.5
67.5°	141.0	163.8	206.8	241.4	258.2
70°	118.3	144.6	187.7	219.9	235.5
72.5°	98.0	125.5	166.1	193.6	193.6
75°	77.7	105.2	142.2	144.6	141.0
77.5°	59.8	86.1	111.2	101.6	104.0
80°	44.2	65.7	70.5	74.1	76.5
82.5°	29.9	44.2	45.4	47.8	47.8
85°	19.1	22.7	23.9	22.7	21.5
87.5°	8.4	9.6	7.2	4.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)