

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-LD5-29-SQP-UNV-L830-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-LD5-29-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1912.8 lumens
Efficiency: N/A
Efficacy: 81.4 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

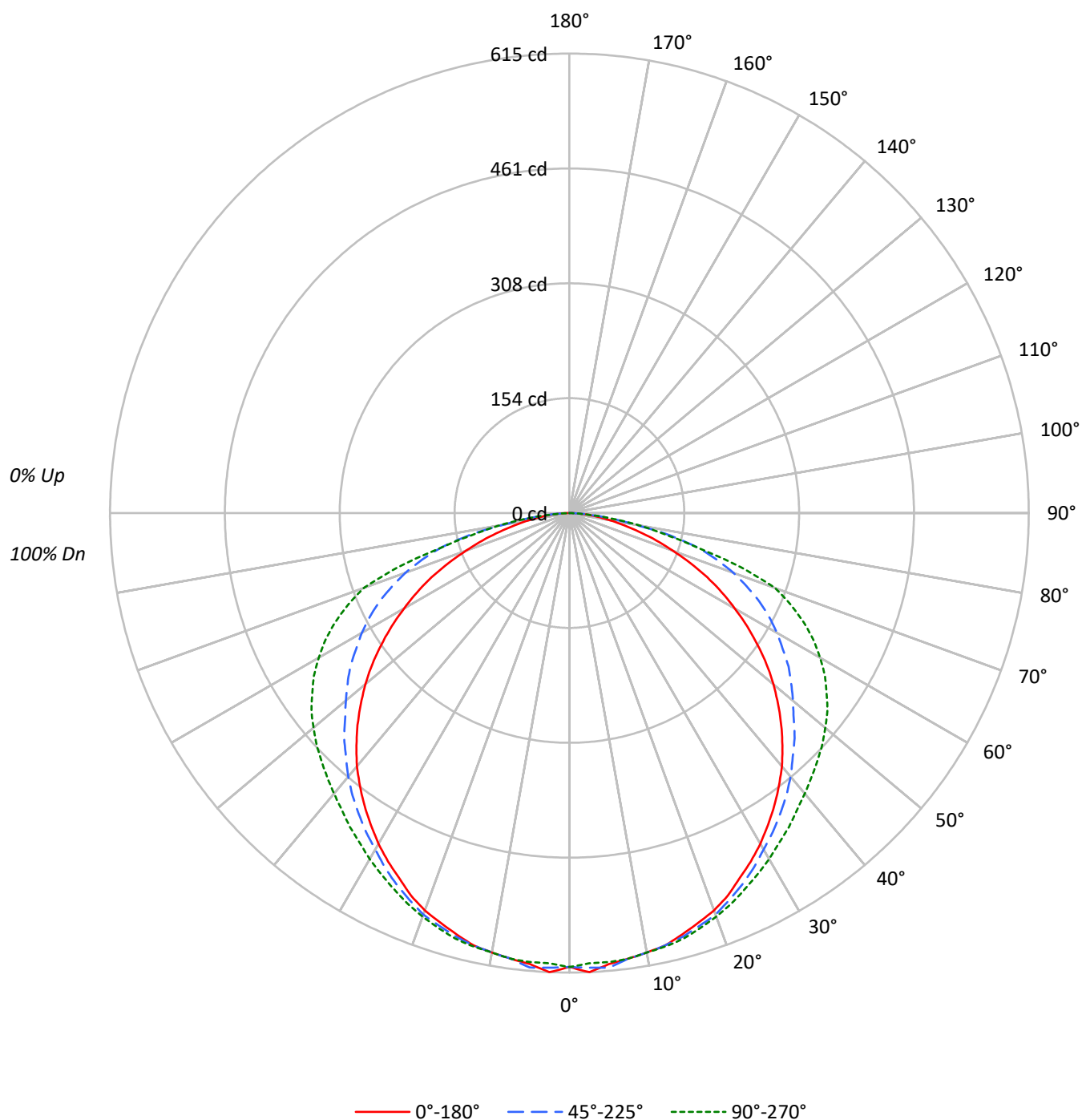
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1635	1635	1635
5°	1630	1639	1622
10°	1618	1612	1618
15°	1605	1604	1621
20°	1592	1597	1617
25°	1564	1576	1612
30°	1543	1552	1615
35°	1518	1539	1627
40°	1493	1527	1653
45°	1454	1516	1701
50°	1409	1508	1767
55°	1347	1526	1841
60°	1266	1539	1920
65°	1170	1552	1990
70°	1018	1536	2024
75°	846	1454	1536
80°	664	970	1148
85°	468	507	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	3.0
10°-20°	165.7	8.7
20°-30°	252.5	13.2
30°-40°	308.9	16.1
40°-50°	332.4	17.4
50°-60°	322.0	16.8
60°-70°	272.7	14.3
70°-80°	164.9	8.6
80°-90°	36.2	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°	475.8	24.9
0°-40°	784.7	41.0
0°-60°	1439.0	75.2
0°-90°	1912.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	606	606	611	608	603	58
15°	584	585	587	588	590	165
25°	539	542	548	553	556	249
35°	478	481	492	505	512	299
45°	401	408	426	453	469	309
55°	308	321	358	400	420	275
65°	204	226	281	325	346	200
75°	96	131	177	180	175	104
85°	24	28	30	28	27	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	607.5	607.5	607.5	607.5	607.5
2.5°	615.0	613.5	609.0	606.1	603.2
5°	606.1	606.1	610.6	607.5	603.2
7.5°	601.6	601.6	601.6	609.0	601.6
10°	597.2	598.7	597.2	603.2	597.2
12.5°	592.7	592.7	592.7	594.2	594.2
15°	583.8	585.3	586.8	588.2	589.8
17.5°	574.8	576.4	579.3	580.8	582.4
20°	566.0	567.4	571.9	571.9	574.8
22.5°	554.1	554.1	560.0	561.5	566.0
25°	539.2	542.2	548.2	552.6	555.6
27.5°	525.8	528.9	534.8	540.7	545.2
30°	511.0	513.9	519.9	528.9	534.8
32.5°	494.7	497.6	506.5	517.0	522.9
35°	478.3	481.3	491.7	505.1	512.5
37.5°	460.5	464.9	476.8	491.7	500.6
40°	442.7	447.2	460.5	476.8	490.2
42.5°	421.9	427.8	442.7	464.9	479.8
45°	401.1	408.5	426.4	453.1	469.4
47.5°	378.8	386.3	407.1	441.2	459.0
50°	356.5	365.5	390.6	427.8	447.2
52.5°	332.8	341.6	374.3	414.5	435.3
55°	307.5	320.9	358.0	399.6	420.4
57.5°	282.2	297.1	338.7	383.2	405.6
60°	255.6	273.3	320.9	365.5	387.7
62.5°	230.3	249.6	301.5	346.1	368.4
65°	203.5	225.8	280.7	325.3	346.1
67.5°	175.3	203.5	257.0	300.1	320.9
70°	147.1	179.7	233.2	273.3	292.6
72.5°	121.8	156.0	206.5	240.6	240.6
75°	96.5	130.7	176.8	179.7	175.3
77.5°	74.3	107.0	138.1	126.3	129.2
80°	55.0	81.7	87.7	92.1	95.1
82.5°	37.1	55.0	56.4	59.4	59.4
85°	23.8	28.2	29.7	28.2	26.7
87.5°	10.4	11.9	8.9	6.0	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)