

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-LD5-34-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-LD5-34-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2307.4 lumens
Efficiency: N/A
Efficacy: 78.5 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

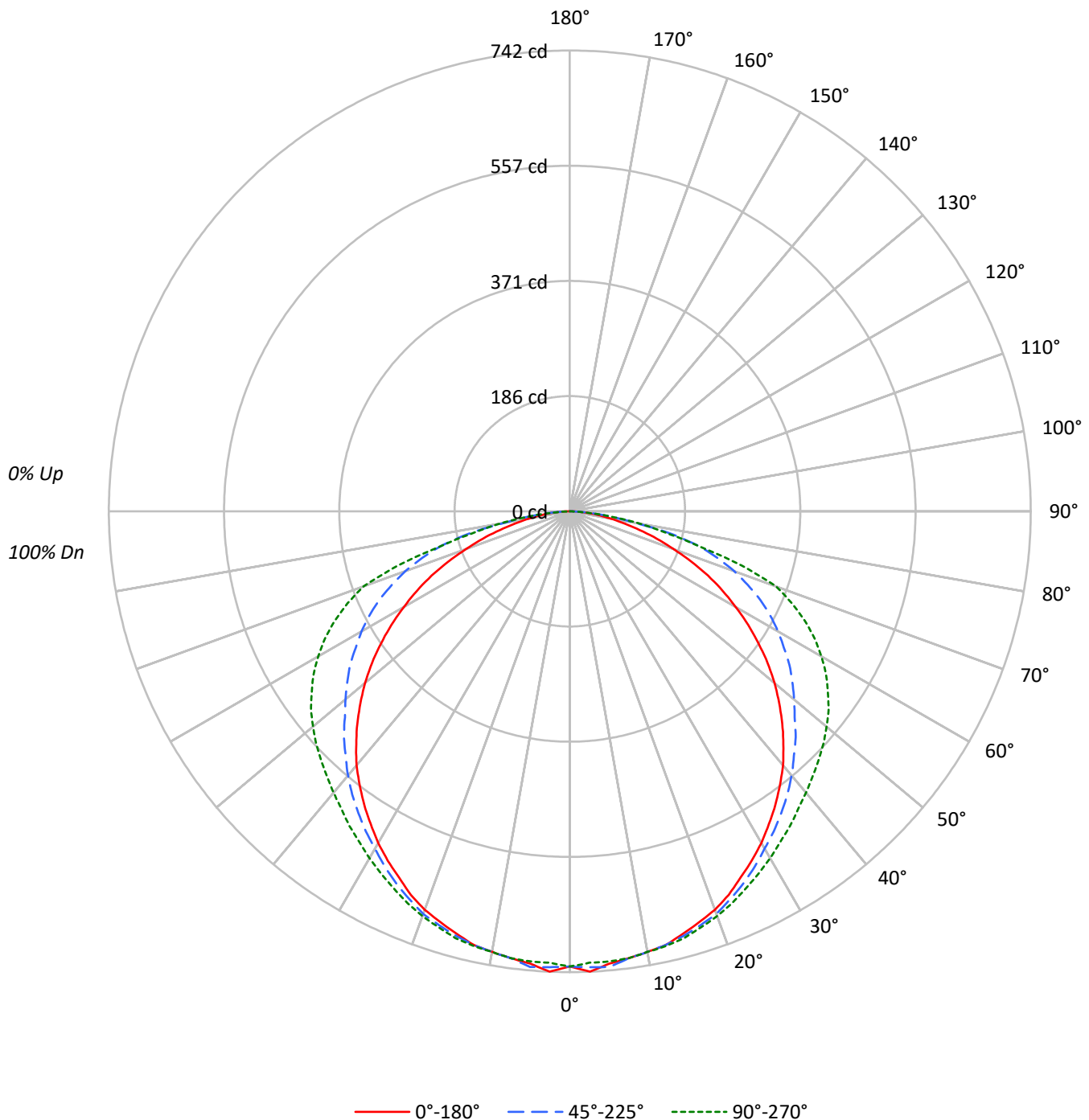
Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1972	1972	1972
5°	1966	1977	1957
10°	1951	1944	1951
15°	1936	1935	1956
20°	1920	1926	1950
25°	1887	1901	1945
30°	1862	1872	1948
35°	1831	1856	1962
40°	1800	1842	1994
45°	1753	1828	2052
50°	1699	1820	2131
55°	1625	1840	2221
60°	1527	1856	2317
65°	1412	1873	2401
70°	1227	1853	2442
75°	1021	1755	1853
80°	800	1169	1385
85°	564	611	635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.0
10°-20°	199.8	8.7
20°-30°	304.5	13.2
30°-40°	372.6	16.1
40°-50°	400.9	17.4
50°-60°	388.4	16.8
60°-70°	329.0	14.3
70°-80°	198.9	8.6
80°-90°	43.7	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°	574.0	24.9
0°-40°	946.6	41.0
0°-60°	1735.9	75.2
0°-90°	2307.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2307.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	731	731	736	733	728	70
15°	704	706	708	710	711	199
25°	650	654	661	667	670	300
35°	577	580	593	609	618	361
45°	484	493	514	546	566	373
55°	371	387	432	482	507	331
65°	246	272	339	392	418	242
75°	116	158	213	217	212	125
85°	29	34	36	34	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.9	732.9	732.9	732.9	732.9
2.5°	741.9	740.0	734.7	731.1	727.5
5°	731.1	731.1	736.4	732.9	727.5
7.5°	725.7	725.7	725.7	734.7	725.7
10°	720.4	722.2	720.4	727.5	720.4
12.5°	715.0	715.0	715.0	716.8	716.8
15°	704.2	706.0	707.8	709.6	711.4
17.5°	693.5	695.3	698.8	700.6	702.4
20°	682.8	684.5	689.9	689.9	693.5
22.5°	668.4	668.4	675.5	677.4	682.8
25°	650.5	654.1	661.2	666.6	670.2
27.5°	634.3	637.9	645.0	652.3	657.7
30°	616.5	620.0	627.2	637.9	645.0
32.5°	596.7	600.3	611.0	623.6	630.8
35°	577.0	580.5	593.1	609.2	618.3
37.5°	555.5	560.9	575.2	593.1	603.9
40°	534.0	539.4	555.5	575.2	591.4
42.5°	508.9	516.0	534.0	560.9	578.8
45°	483.8	492.8	514.3	546.5	566.3
47.5°	457.0	465.9	491.0	532.2	553.7
50°	430.1	440.8	471.3	516.0	539.4
52.5°	401.4	412.1	451.5	500.0	525.1
55°	371.0	387.0	431.9	482.0	507.1
57.5°	340.5	358.3	408.6	462.4	489.2
60°	308.2	329.7	387.0	440.8	467.7
62.5°	277.8	301.1	363.8	417.5	444.4
65°	245.5	272.4	338.7	392.4	417.5
67.5°	211.5	245.5	310.0	362.0	387.0
70°	177.4	216.8	281.3	329.7	353.0
72.5°	147.0	188.2	249.1	290.3	290.3
75°	116.5	157.7	213.3	216.8	211.5
77.5°	89.6	129.0	166.6	152.3	155.9
80°	66.3	98.5	105.7	111.1	114.7
82.5°	44.8	66.3	68.1	71.6	71.6
85°	28.7	34.0	35.8	34.0	32.3
87.5°	12.5	14.3	10.7	7.1	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)