

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-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-LD5-29-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2181.8 lumens
Efficiency: N/A
Efficacy: 92.8 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

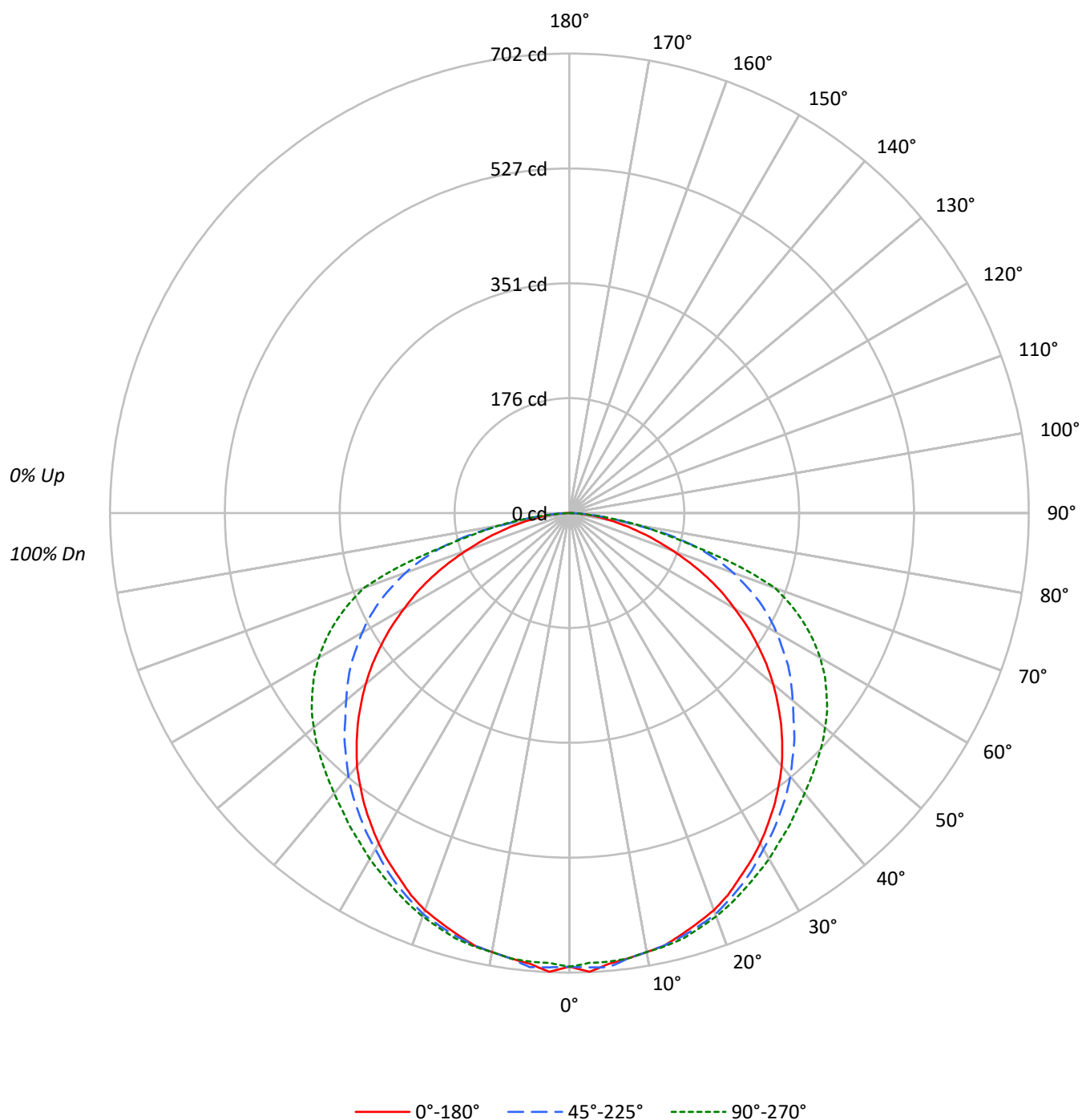
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1865	1865	1865
5°	1859	1870	1850
10°	1845	1838	1845
15°	1831	1830	1849
20°	1815	1821	1844
25°	1785	1797	1839
30°	1760	1770	1842
35°	1732	1755	1855
40°	1702	1742	1885
45°	1658	1728	1941
50°	1606	1720	2015
55°	1536	1740	2100
60°	1443	1755	2190
65°	1335	1770	2270
70°	1160	1752	2309
75°	965	1658	1752
80°	757	1106	1309
85°	532	579	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.0
10°-20°	189.0	8.7
20°-30°	288.0	13.2
30°-40°	352.3	16.1
40°-50°	379.1	17.4
50°-60°	367.2	16.8
60°-70°	311.1	14.3
70°-80°	188.0	8.6
80°-90°	41.3	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°	542.7	24.9
0°-40°	895.0	41.0
0°-60°	1641.3	75.2
0°-90°	2181.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2181.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	693	693	693	693	693	
5°	691	691	696	693	688	66
15°	666	668	669	671	673	188
25°	615	618	625	630	634	284
35°	546	549	561	576	585	341
45°	458	466	486	517	535	353
55°	351	366	408	456	480	313
65°	232	258	320	371	395	229
75°	110	149	202	205	200	118
85°	27	32	34	32	30	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	693.0	693.0	693.0	693.0	693.0
2.5°	701.5	699.8	694.7	691.3	687.9
5°	691.3	691.3	696.4	693.0	687.9
7.5°	686.2	686.2	686.2	694.7	686.2
10°	681.1	682.8	681.1	687.9	681.1
12.5°	676.0	676.0	676.0	677.7	677.7
15°	665.9	667.6	669.3	671.0	672.7
17.5°	655.7	657.4	660.8	662.5	664.2
20°	645.5	647.2	652.3	652.3	655.7
22.5°	632.0	632.0	638.8	640.5	645.5
25°	615.1	618.4	625.2	630.3	633.7
27.5°	599.8	603.2	610.0	616.7	621.8
30°	582.9	586.2	593.0	603.2	610.0
32.5°	564.2	567.6	577.8	589.6	596.4
35°	545.6	549.0	560.8	576.1	584.6
37.5°	525.3	530.3	543.9	560.8	571.0
40°	504.9	510.0	525.3	543.9	559.1
42.5°	481.2	488.0	504.9	530.3	547.3
45°	457.5	465.9	486.3	516.8	535.4
47.5°	432.1	440.5	464.3	503.2	523.6
50°	406.6	416.8	445.6	488.0	510.0
52.5°	379.5	389.7	427.0	472.7	496.4
55°	350.7	366.0	408.3	455.8	479.5
57.5°	321.9	338.9	386.3	437.1	462.6
60°	291.4	311.8	366.0	416.8	442.2
62.5°	262.6	284.7	344.0	394.8	420.2
65°	232.1	257.5	320.2	371.1	394.8
67.5°	199.9	232.1	293.1	342.3	366.0
70°	167.7	205.0	266.0	311.8	333.8
72.5°	138.9	177.9	235.5	274.5	274.5
75°	110.1	149.1	201.6	205.0	199.9
77.5°	84.7	122.0	157.6	144.0	147.4
80°	62.7	93.2	100.0	105.1	108.4
82.5°	42.4	62.7	64.4	67.8	67.8
85°	27.1	32.2	33.9	32.2	30.5
87.5°	11.9	13.6	10.2	6.8	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)