

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-LD5-39SE-RDP-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-LD5-39SE-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2218.5 lumens
Efficiency: N/A
Efficacy: 63.6 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

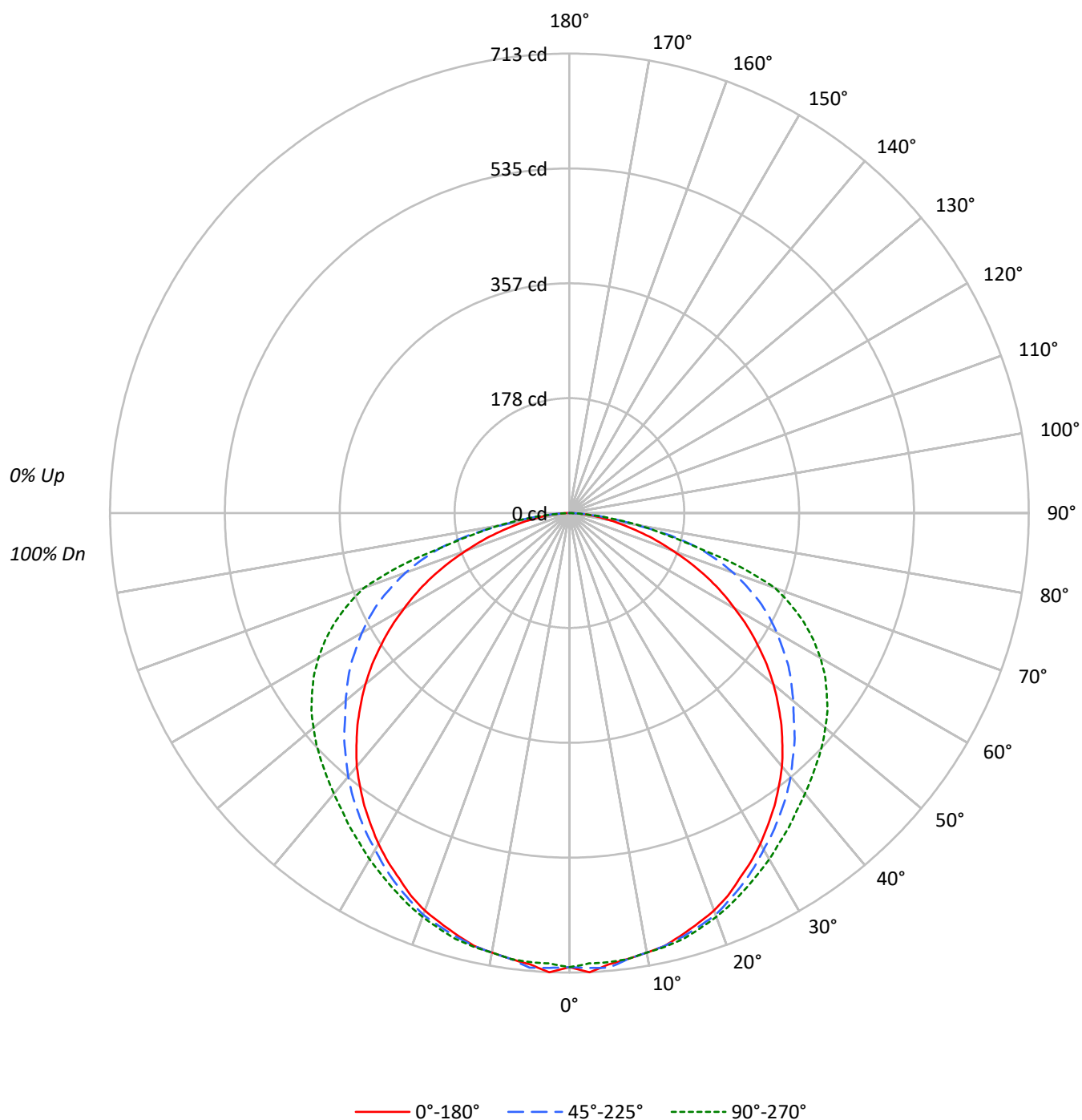
Input Watts (W): 34.88
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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°	1896	1896	1896
5°	1890	1901	1881
10°	1876	1869	1876
15°	1861	1861	1880
20°	1846	1852	1875
25°	1815	1827	1870
30°	1790	1800	1873
35°	1761	1785	1887
40°	1731	1771	1917
45°	1686	1758	1973
50°	1633	1750	2049
55°	1562	1769	2135
60°	1468	1784	2227
65°	1358	1801	2309
70°	1179	1782	2348
75°	981	1686	1781
80°	769	1124	1332
85°	542	589	609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.0
10°-20°	192.1	8.7
20°-30°	292.8	13.2
30°-40°	358.3	16.1
40°-50°	385.5	17.4
50°-60°	373.4	16.8
60°-70°	316.3	14.3
70°-80°	191.2	8.6
80°-90°	42.0	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°	551.8	24.9
0°-40°	910.1	41.0
0°-60°	1669.0	75.2
0°-90°	2218.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2218.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	705	705	705	705	705	
5°	703	703	708	705	700	67
15°	677	679	680	682	684	191
25°	625	629	636	641	644	289
35°	555	558	570	586	594	347
45°	465	474	494	525	544	359
55°	357	372	415	463	488	319
65°	236	262	326	377	402	232
75°	112	152	205	208	203	120
85°	28	33	34	33	31	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.6	704.6	704.6	704.6	704.6
2.5°	713.3	711.6	706.4	702.9	699.5
5°	702.9	702.9	708.1	704.6	699.5
7.5°	697.8	697.8	697.8	706.4	697.8
10°	692.6	694.4	692.6	699.5	692.6
12.5°	687.4	687.4	687.4	689.1	689.1
15°	677.1	678.8	680.5	682.3	684.0
17.5°	666.7	668.5	671.9	673.6	675.4
20°	656.4	658.2	663.3	663.3	666.7
22.5°	642.7	642.7	649.5	651.2	656.4
25°	625.4	628.8	635.7	640.9	644.4
27.5°	609.9	613.3	620.3	627.1	632.3
30°	592.7	596.1	603.0	613.3	620.3
32.5°	573.7	577.1	587.5	599.5	606.5
35°	554.8	558.2	570.3	585.8	594.4
37.5°	534.1	539.2	553.0	570.3	580.6
40°	513.4	518.6	534.1	553.0	568.6
42.5°	489.2	496.2	513.4	539.2	556.5
45°	465.2	473.8	494.5	525.4	544.4
47.5°	439.4	447.9	472.1	511.7	532.4
50°	413.4	423.8	453.2	496.2	518.6
52.5°	385.9	396.2	434.2	480.7	504.8
55°	356.6	372.1	415.2	463.4	487.5
57.5°	327.4	344.6	392.8	444.5	470.3
60°	296.3	317.0	372.1	423.8	449.6
62.5°	267.0	289.5	349.7	401.5	427.3
65°	236.1	261.9	325.7	377.3	401.5
67.5°	203.3	236.1	298.0	348.0	372.1
70°	170.5	208.4	270.5	317.0	339.4
72.5°	141.3	180.9	239.5	279.1	279.1
75°	112.0	151.6	205.0	208.4	203.3
77.5°	86.2	124.1	160.3	146.5	149.9
80°	63.7	94.7	101.6	106.8	110.3
82.5°	43.0	63.7	65.5	68.9	68.9
85°	27.6	32.8	34.5	32.8	31.0
87.5°	12.1	13.8	10.4	6.9	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)