

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-LD5-32SE-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-LD5-32SE-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

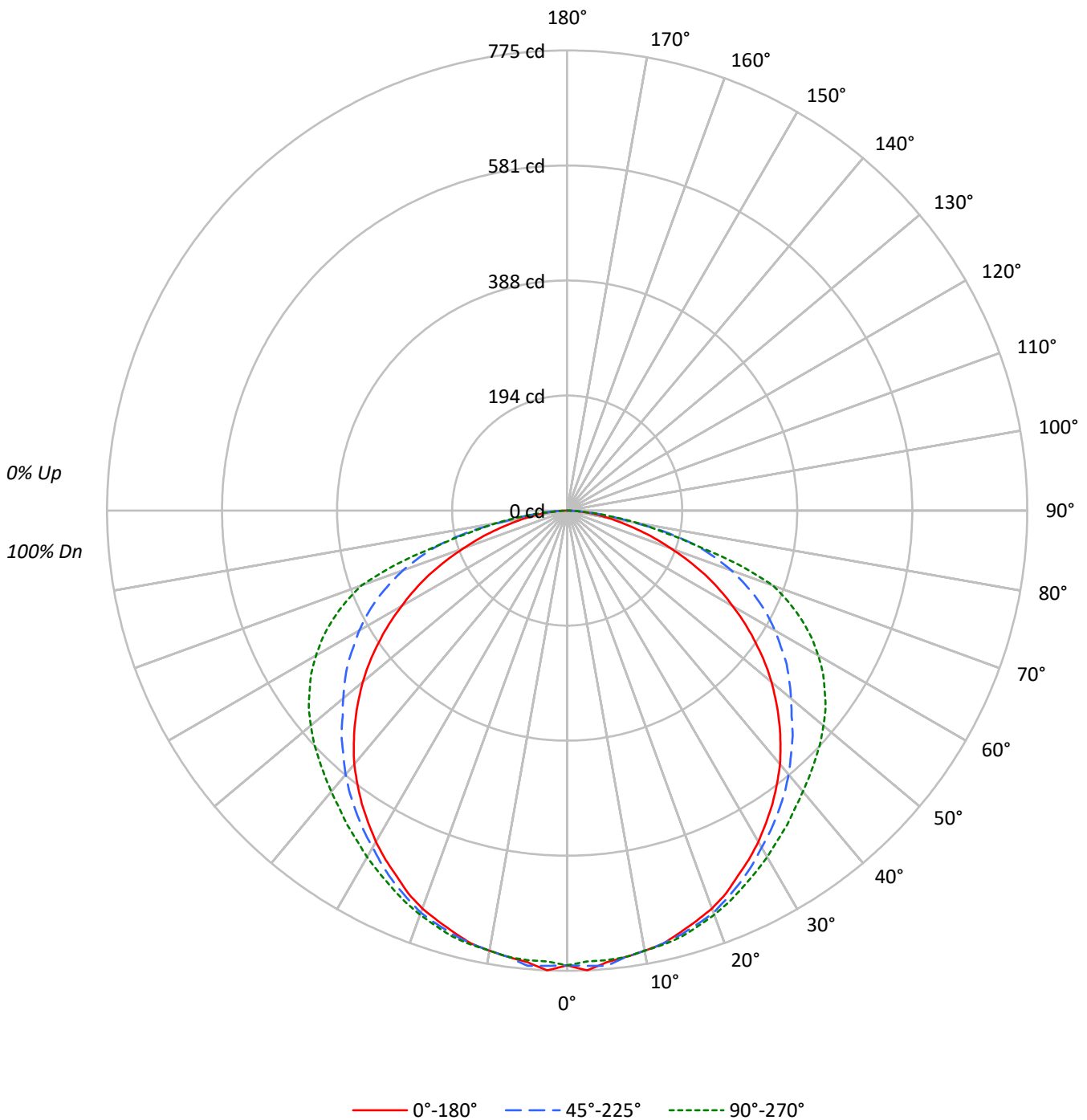
Lumens per Lamp: N/A
Luminaire Lumens: 2410.6 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 30.53
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	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°	2060	2060	2060
5°	2054	2066	2044
10°	2039	2031	2039
15°	2022	2022	2043
20°	2006	2012	2038
25°	1972	1986	2031
30°	1945	1956	2035
35°	1913	1939	2050
40°	1881	1924	2083
45°	1832	1910	2144
50°	1775	1901	2226
55°	1697	1923	2320
60°	1595	1939	2420
65°	1475	1956	2508
70°	1282	1936	2551
75°	1066	1833	1936
80°	837	1221	1446
85°	589	639	662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.0
10°-20°	208.8	8.7
20°-30°	318.1	13.2
30°-40°	389.3	16.1
40°-50°	418.9	17.4
50°-60°	405.7	16.8
60°-70°	343.7	14.3
70°-80°	207.8	8.6
80°-90°	45.7	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°	599.6	24.9
0°-40°	988.9	41.0
0°-60°	1813.5	75.2
0°-90°	2410.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2410.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	764	764	769	766	760	73
15°	736	738	740	741	743	208
25°	680	683	691	696	700	314
35°	603	606	620	636	646	377
45°	505	515	537	571	592	390
55°	388	404	451	504	530	346
65°	256	284	354	410	436	253
75°	122	165	223	226	221	131
85°	30	36	37	36	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.7	765.7	765.7	765.7	765.7
2.5°	775.0	773.1	767.5	763.8	760.0
5°	763.8	763.8	769.4	765.7	760.0
7.5°	758.2	758.2	758.2	767.5	758.2
10°	752.6	754.4	752.6	760.0	752.6
12.5°	746.9	746.9	746.9	748.8	748.8
15°	735.7	737.6	739.5	741.3	743.2
17.5°	724.5	726.3	730.1	732.0	733.8
20°	713.2	715.1	720.7	720.7	724.5
22.5°	698.3	698.3	705.8	707.6	713.2
25°	679.5	683.3	690.8	696.4	700.1
27.5°	662.7	666.4	673.9	681.4	687.0
30°	644.0	647.7	655.2	666.4	673.9
32.5°	623.4	627.1	638.4	651.5	659.0
35°	602.8	606.5	619.6	636.5	645.9
37.5°	580.3	585.9	600.9	619.6	630.9
40°	557.9	563.5	580.3	600.9	617.8
42.5°	531.7	539.1	557.9	585.9	604.7
45°	505.4	514.8	537.3	571.0	591.6
47.5°	477.4	486.7	512.9	556.0	578.5
50°	449.3	460.5	492.3	539.1	563.5
52.5°	419.3	430.6	471.8	522.3	548.5
55°	387.5	404.4	451.2	503.6	529.8
57.5°	355.7	374.4	426.8	483.0	511.1
60°	322.0	344.5	404.4	460.5	488.6
62.5°	290.2	314.5	380.0	436.2	464.3
65°	256.5	284.5	353.8	410.0	436.2
67.5°	220.9	256.5	323.9	378.2	404.4
70°	185.3	226.5	293.9	344.5	368.8
72.5°	153.5	196.6	260.2	303.3	303.3
75°	121.7	164.7	222.8	226.5	220.9
77.5°	93.6	134.8	174.1	159.1	162.9
80°	69.3	103.0	110.4	116.1	119.8
82.5°	46.8	69.3	71.1	74.9	74.9
85°	30.0	35.6	37.4	35.6	33.7
87.5°	13.1	15.0	11.2	7.5	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)