

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-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-LD5-39SE-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2530.4 lumens
Efficiency: N/A
Efficacy: 72.5 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

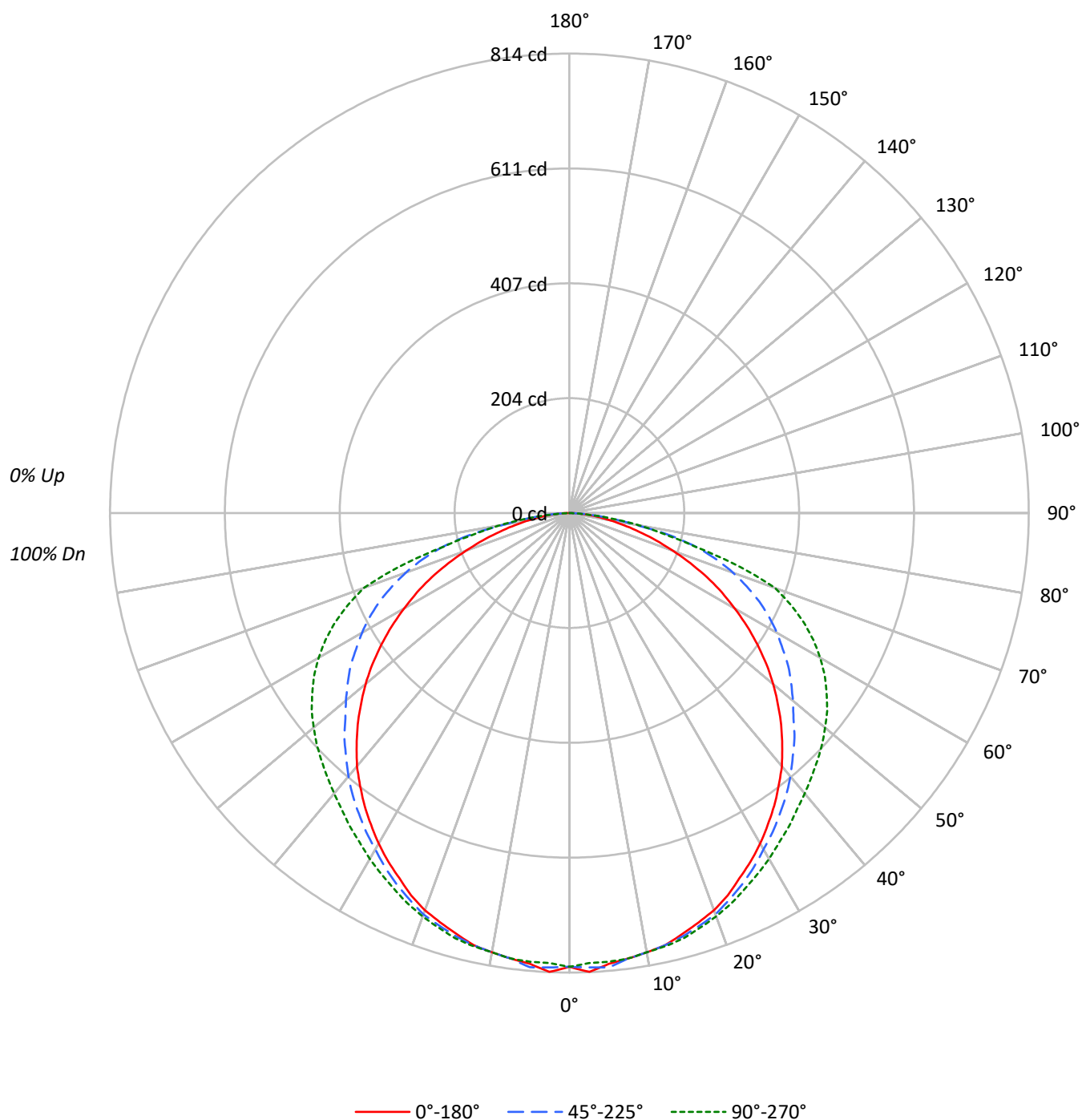
Input Watts (W): 34.88
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	2163	2163	2163
5°	2156	2168	2146
10°	2140	2132	2140
15°	2123	2122	2145
20°	2106	2112	2139
25°	2070	2084	2132
30°	2042	2053	2136
35°	2008	2036	2152
40°	1974	2020	2186
45°	1923	2005	2251
50°	1863	1995	2337
55°	1781	2018	2435
60°	1674	2035	2540
65°	1548	2053	2633
70°	1345	2032	2678
75°	1119	1923	2032
80°	878	1282	1519
85°	617	671	696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.0
10°-20°	219.2	8.7
20°-30°	334.0	13.2
30°-40°	408.6	16.1
40°-50°	439.7	17.4
50°-60°	425.9	16.8
60°-70°	360.8	14.3
70°-80°	218.1	8.6
80°-90°	47.9	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°	629.4	24.9
0°-40°	1038.1	41.0
0°-60°	1903.6	75.2
0°-90°	2530.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2530.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	802	802	808	804	798	76
15°	772	774	776	778	780	218
25°	713	717	725	731	735	329
35°	633	637	650	668	678	396
45°	531	540	564	599	621	409
55°	407	424	474	529	556	363
65°	269	299	371	430	458	265
75°	128	173	234	238	232	137
85°	31	37	39	37	35	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.7	803.7	803.7	803.7	803.7
2.5°	813.5	811.6	805.7	801.8	797.8
5°	801.8	801.8	807.7	803.7	797.8
7.5°	795.9	795.9	795.9	805.7	795.9
10°	790.0	791.9	790.0	797.8	790.0
12.5°	784.1	784.1	784.1	786.0	786.0
15°	772.3	774.2	776.2	778.2	780.1
17.5°	760.5	762.5	766.4	768.3	770.3
20°	748.7	750.7	756.6	756.6	760.5
22.5°	733.0	733.0	740.8	742.8	748.7
25°	713.3	717.3	725.1	731.0	734.9
27.5°	695.6	699.6	707.4	715.3	721.2
30°	676.0	679.9	687.8	699.6	707.4
32.5°	654.4	658.3	670.1	683.9	691.7
35°	632.8	636.7	650.4	668.1	678.0
37.5°	609.2	615.1	630.8	650.4	662.2
40°	585.6	591.5	609.2	630.8	648.5
42.5°	558.1	565.9	585.6	615.1	634.7
45°	530.6	540.4	564.0	599.4	621.0
47.5°	501.1	510.9	538.4	583.6	607.2
50°	471.6	483.4	516.8	565.9	591.5
52.5°	440.2	452.0	495.2	548.3	575.8
55°	406.8	424.5	473.6	528.6	556.1
57.5°	373.4	393.0	448.0	507.0	536.5
60°	338.0	361.6	424.5	483.4	512.9
62.5°	304.6	330.1	398.9	457.9	487.3
65°	269.2	298.7	371.4	430.4	457.9
67.5°	231.9	269.2	340.0	396.9	424.5
70°	194.5	237.8	308.5	361.6	387.1
72.5°	161.1	206.3	273.1	318.3	318.3
75°	127.7	172.9	233.8	237.8	231.9
77.5°	98.3	141.5	182.8	167.0	171.0
80°	72.7	108.1	115.9	121.8	125.8
82.5°	49.1	72.7	74.7	78.6	78.6
85°	31.4	37.3	39.3	37.3	35.4
87.5°	13.8	15.7	11.8	7.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)