

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: **24CZ-LD5-35SE-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: 24CZ-LD5-35SE-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

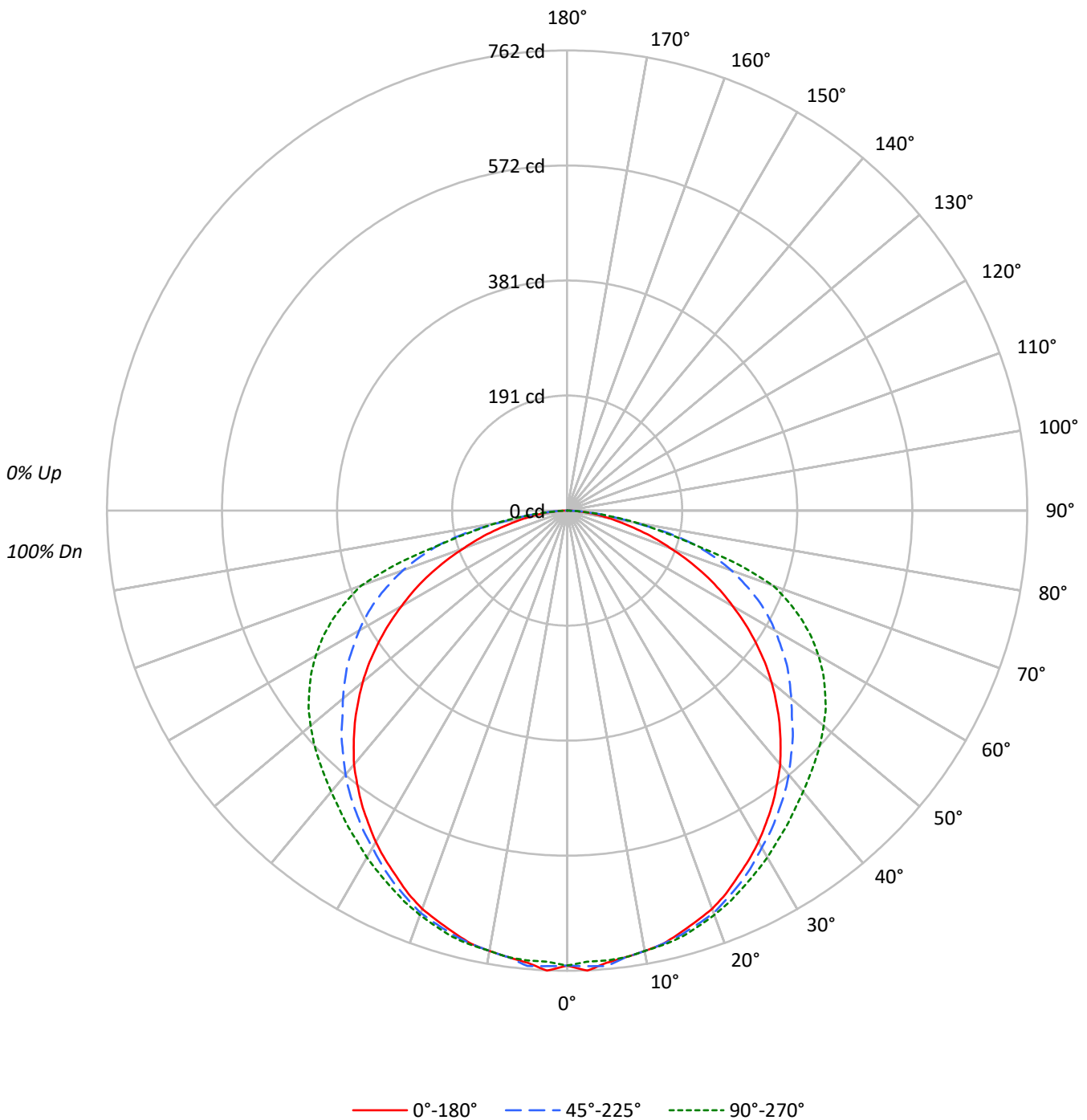
Lumens per Lamp: N/A
Luminaire Lumens: 2371.7 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 28.57
Input Voltage (V): NR
Input Current (A_{in}): 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°	1014	1014	1014
5°	1013	1018	1006
10°	1007	1002	1003
15°	1002	999	1005
20°	996	996	1002
25°	981	985	999
30°	970	972	1001
35°	957	965	1008
40°	944	960	1025
45°	923	955	1055
50°	898	954	1095
55°	864	968	1141
60°	817	980	1190
65°	762	995	1234
70°	671	993	1255
75°	569	951	952
80°	462	648	712
85°	354	354	326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.0
10°-20°	205.4	8.7
20°-30°	313.0	13.2
30°-40°	383.0	16.1
40°-50°	412.1	17.4
50°-60°	399.2	16.8
60°-70°	338.1	14.3
70°-80°	204.4	8.6
80°-90°	44.9	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°	589.9	24.9
0°-40°	972.9	41.0
0°-60°	1784.2	75.2
0°-90°	2371.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2371.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	752	752	757	753	748	71
15°	724	726	728	729	731	204
25°	669	672	680	685	689	309
35°	593	597	610	626	635	371
45°	497	506	529	562	582	383
55°	381	398	444	496	521	341
65°	252	280	348	403	429	248
75°	120	162	219	223	217	129
85°	30	35	37	35	33	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.3	753.3	753.3	753.3	753.3
2.5°	762.5	760.7	755.2	751.5	747.8
5°	751.5	751.5	757.0	753.3	747.8
7.5°	745.9	745.9	745.9	755.2	745.9
10°	740.4	742.3	740.4	747.8	740.4
12.5°	734.9	734.9	734.9	736.7	736.7
15°	723.8	725.7	727.5	729.4	731.2
17.5°	712.8	714.6	718.3	720.2	722.0
20°	701.7	703.6	709.1	709.1	712.8
22.5°	687.0	687.0	694.4	696.2	701.7
25°	668.6	672.3	679.6	685.2	688.8
27.5°	652.0	655.7	663.1	670.4	676.0
30°	633.6	637.3	644.6	655.7	663.1
32.5°	613.3	617.0	628.1	641.0	648.3
35°	593.1	596.8	609.6	626.2	635.4
37.5°	571.0	576.5	591.2	609.6	620.7
40°	548.9	554.4	571.0	591.2	607.8
42.5°	523.1	530.4	548.9	576.5	594.9
45°	497.3	506.5	528.6	561.8	582.0
47.5°	469.7	478.9	504.7	547.0	569.1
50°	442.0	453.1	484.4	530.4	554.4
52.5°	412.6	423.6	464.1	513.9	539.7
55°	381.3	397.8	443.9	495.5	521.2
57.5°	349.9	368.4	419.9	475.2	502.8
60°	316.8	338.9	397.8	453.1	480.7
62.5°	285.5	309.4	373.9	429.1	456.8
65°	252.3	280.0	348.1	403.4	429.1
67.5°	217.3	252.3	318.6	372.0	397.8
70°	182.3	222.9	289.2	338.9	362.8
72.5°	151.0	193.4	256.0	298.4	298.4
75°	119.7	162.1	219.2	222.9	217.3
77.5°	92.1	132.6	171.3	156.6	160.2
80°	68.1	101.3	108.7	114.2	117.9
82.5°	46.0	68.1	70.0	73.7	73.7
85°	29.5	35.0	36.8	35.0	33.2
87.5°	12.9	14.7	11.1	7.4	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)