

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-SQP-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: 24CZ-LD5-35SE-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

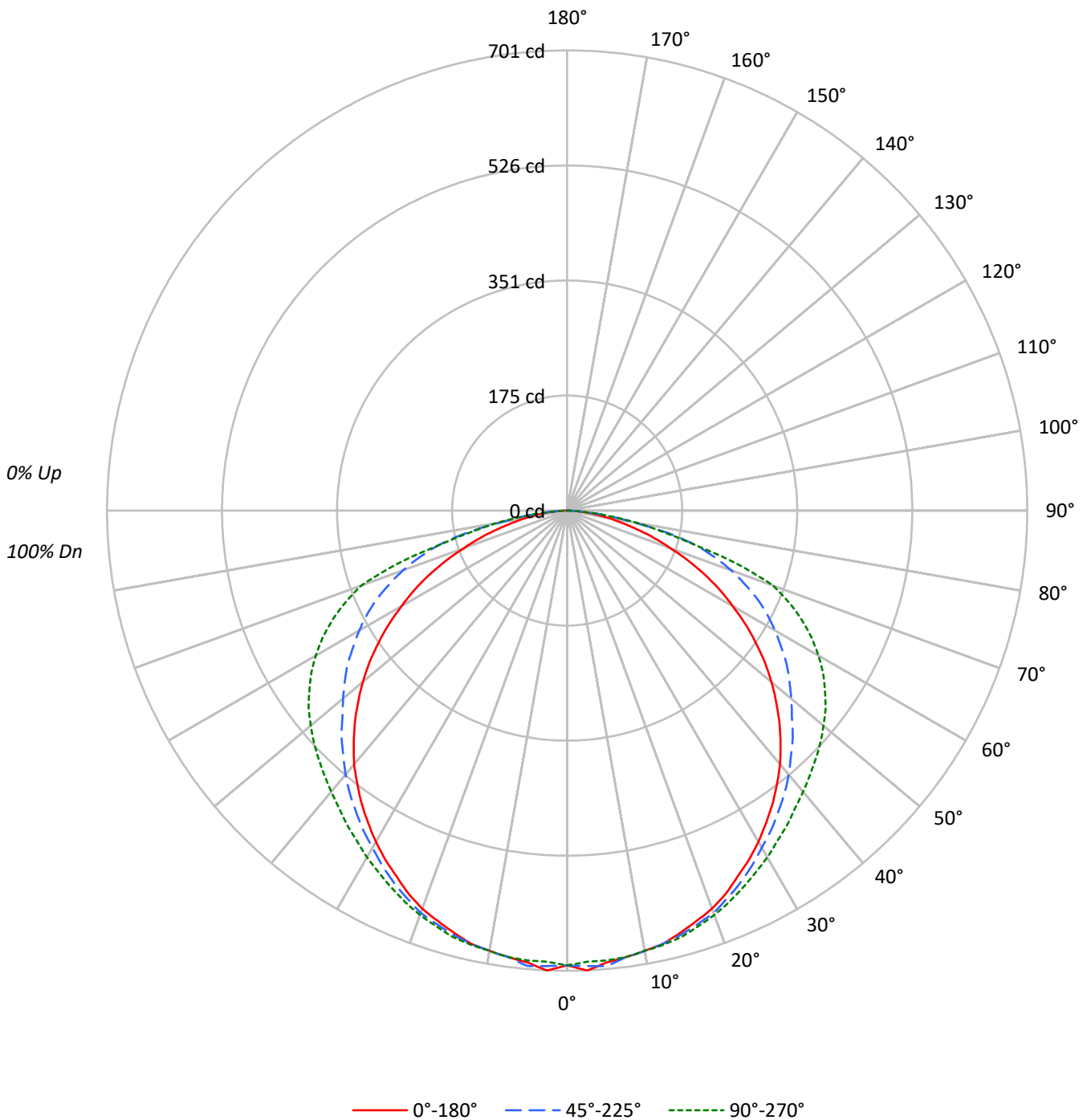
Lumens per Lamp: N/A
Luminaire Lumens: 2181.4 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 28.57
Input Voltage (V): NR
Input Current (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°	932	932	932
5°	931	936	925
10°	926	922	922
15°	921	919	924
20°	916	916	922
25°	902	906	919
30°	892	894	921
35°	881	888	927
40°	868	883	942
45°	849	879	970
50°	826	877	1007
55°	794	890	1050
60°	752	902	1095
65°	701	915	1135
70°	617	913	1154
75°	524	875	876
80°	425	595	654
85°	325	326	300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.0
10°-20°	188.9	8.7
20°-30°	287.9	13.2
30°-40°	352.3	16.1
40°-50°	379.0	17.4
50°-60°	367.2	16.8
60°-70°	311.0	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°	542.6	24.9
0°-40°	894.9	41.0
0°-60°	1641.1	75.2
0°-90°	2181.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2181.4	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	672	188
25°	615	618	625	630	634	284
35°	546	549	561	576	584	341
45°	457	466	486	517	535	353
55°	351	366	408	456	479	313
65°	232	257	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°	692.8	692.8	692.8	692.8	692.8
2.5°	701.3	699.7	694.5	691.1	687.8
5°	691.1	691.1	696.3	692.8	687.8
7.5°	686.1	686.1	686.1	694.5	686.1
10°	681.0	682.7	681.0	687.8	681.0
12.5°	675.9	675.9	675.9	677.6	677.6
15°	665.8	667.5	669.2	670.8	672.5
17.5°	655.6	657.3	660.6	662.3	664.0
20°	645.4	647.1	652.2	652.2	655.6
22.5°	631.8	631.8	638.7	640.3	645.4
25°	614.9	618.4	625.1	630.1	633.6
27.5°	599.7	603.1	609.9	616.6	621.7
30°	582.7	586.2	592.9	603.1	609.9
32.5°	564.1	567.5	577.7	589.6	596.3
35°	545.5	548.9	560.7	576.0	584.4
37.5°	525.2	530.2	543.8	560.7	570.9
40°	504.8	509.9	525.2	543.8	559.1
42.5°	481.1	487.9	504.8	530.2	547.2
45°	457.4	465.9	486.2	516.7	535.3
47.5°	432.0	440.4	464.2	503.1	523.4
50°	406.6	416.8	445.6	487.9	509.9
52.5°	379.4	389.6	426.9	472.6	496.4
55°	350.6	365.9	408.3	455.7	479.4
57.5°	321.9	338.8	386.3	437.1	462.5
60°	291.4	311.7	365.9	416.8	442.1
62.5°	262.6	284.6	343.9	394.7	420.1
65°	232.1	257.4	320.2	371.0	394.7
67.5°	199.9	232.1	293.1	342.2	365.9
70°	167.7	205.0	266.0	311.7	333.7
72.5°	138.9	177.8	235.5	274.5	274.5
75°	110.1	149.1	201.6	205.0	199.9
77.5°	84.7	122.0	157.5	144.0	147.3
80°	62.7	93.2	99.9	105.1	108.4
82.5°	42.4	62.7	64.4	67.7	67.7
85°	27.1	32.2	33.9	32.2	30.5
87.5°	11.9	13.6	10.2	6.7	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)