

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-LD5-30SE-SQP-UNV-L835-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-LD5-30SE-SQP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

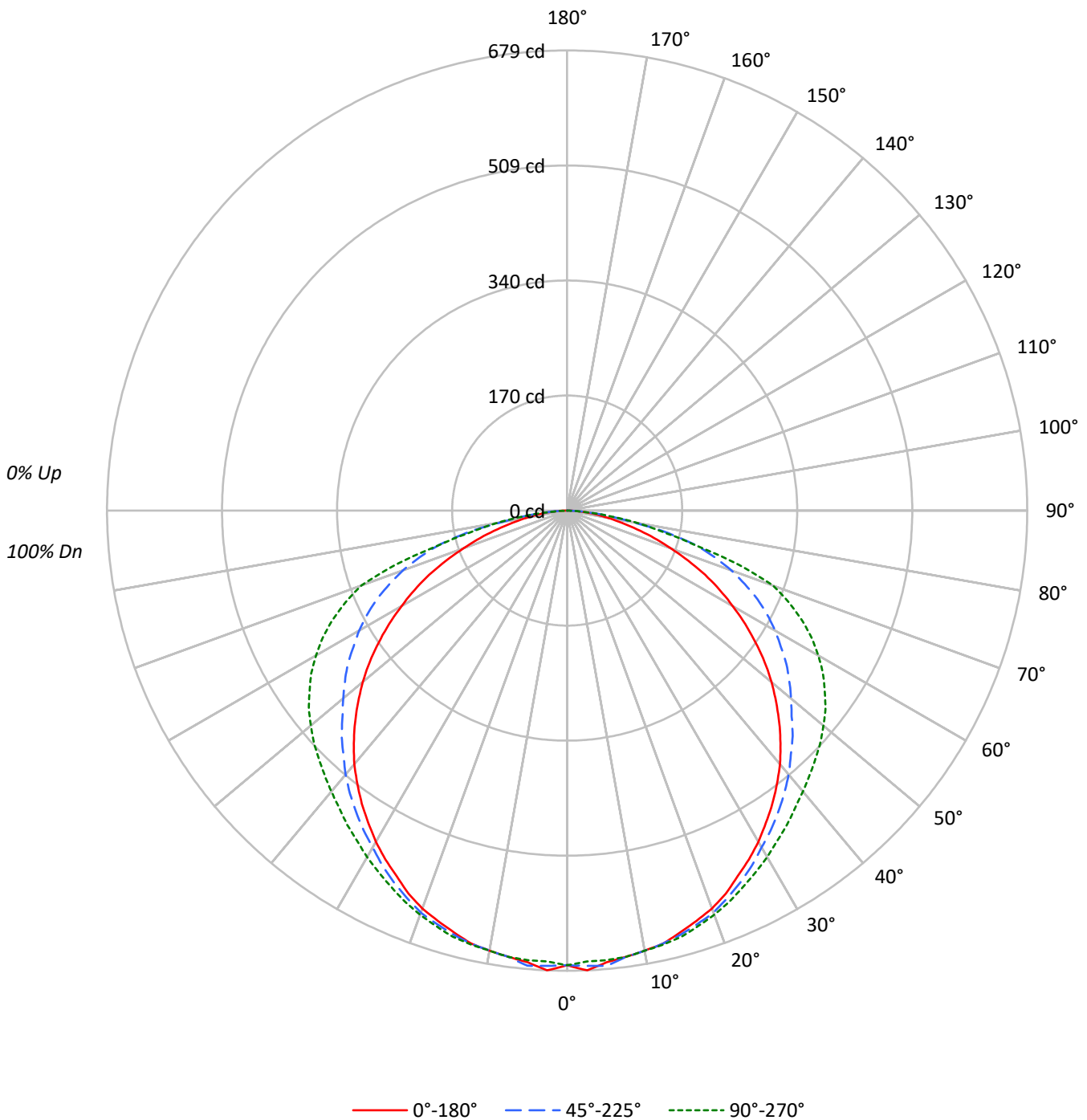
Lumens per Lamp: N/A
Luminaire Lumens: 2111.8 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 23.5
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°	903	903	903
5°	902	906	895
10°	897	892	893
15°	892	890	895
20°	887	887	893
25°	874	877	890
30°	864	865	892
35°	853	860	898
40°	841	855	912
45°	822	851	939
50°	800	849	975
55°	769	862	1016
60°	728	873	1060
65°	679	886	1099
70°	598	884	1118
75°	507	847	848
80°	412	577	634
85°	315	315	290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	3.0
10°-20°	182.9	8.7
20°-30°	278.7	13.2
30°-40°	341.0	16.1
40°-50°	366.9	17.4
50°-60°	355.4	16.8
60°-70°	301.1	14.3
70°-80°	182.0	8.6
80°-90°	40.0	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°	525.3	24.9
0°-40°	866.3	41.0
0°-60°	1588.7	75.2
0°-90°	2111.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2111.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	669	669	674	671	666	64
15°	644	646	648	650	651	182
25°	595	599	605	610	613	275
35°	528	531	543	558	566	330
45°	443	451	471	500	518	341
55°	340	354	395	441	464	303
65°	225	249	310	359	382	221
75°	107	144	195	198	194	115
85°	26	31	33	31	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670.8	670.8	670.8	670.8	670.8
2.5°	679.0	677.3	672.4	669.1	665.9
5°	669.1	669.1	674.1	670.8	665.9
7.5°	664.2	664.2	664.2	672.4	664.2
10°	659.3	660.9	659.3	665.9	659.3
12.5°	654.4	654.4	654.4	656.0	656.0
15°	644.5	646.2	647.8	649.5	651.1
17.5°	634.7	636.3	639.6	641.3	642.9
20°	624.9	626.5	631.4	631.4	634.7
22.5°	611.7	611.7	618.3	619.9	624.9
25°	595.3	598.6	605.2	610.1	613.4
27.5°	580.6	583.9	590.4	597.0	601.9
30°	564.2	567.5	574.0	583.9	590.4
32.5°	546.1	549.4	559.3	570.7	577.3
35°	528.1	531.4	542.9	557.6	565.8
37.5°	508.4	513.3	526.4	542.9	552.7
40°	488.7	493.6	508.4	526.4	541.2
42.5°	465.8	472.3	488.7	513.3	529.7
45°	442.8	451.0	470.7	500.2	518.2
47.5°	418.2	426.4	449.4	487.1	506.8
50°	393.6	403.4	431.3	472.3	493.6
52.5°	367.4	377.2	413.3	457.6	480.5
55°	339.5	354.2	395.2	441.2	464.1
57.5°	311.6	328.0	373.9	423.1	447.7
60°	282.1	301.8	354.2	403.4	428.0
62.5°	254.2	275.5	332.9	382.1	406.7
65°	224.7	249.3	310.0	359.2	382.1
67.5°	193.5	224.7	283.7	331.3	354.2
70°	162.4	198.4	257.5	301.8	323.1
72.5°	134.5	172.2	228.0	265.7	265.7
75°	106.6	144.3	195.2	198.4	193.5
77.5°	82.0	118.1	152.5	139.4	142.7
80°	60.7	90.2	96.8	101.7	105.0
82.5°	41.0	60.7	62.3	65.6	65.6
85°	26.2	31.2	32.8	31.2	29.5
87.5°	11.5	13.1	9.8	6.6	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)