

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-L850-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-L850-CD1-U  
Description:

Light Source: -  
Ballast/Driver: -

**Summary**

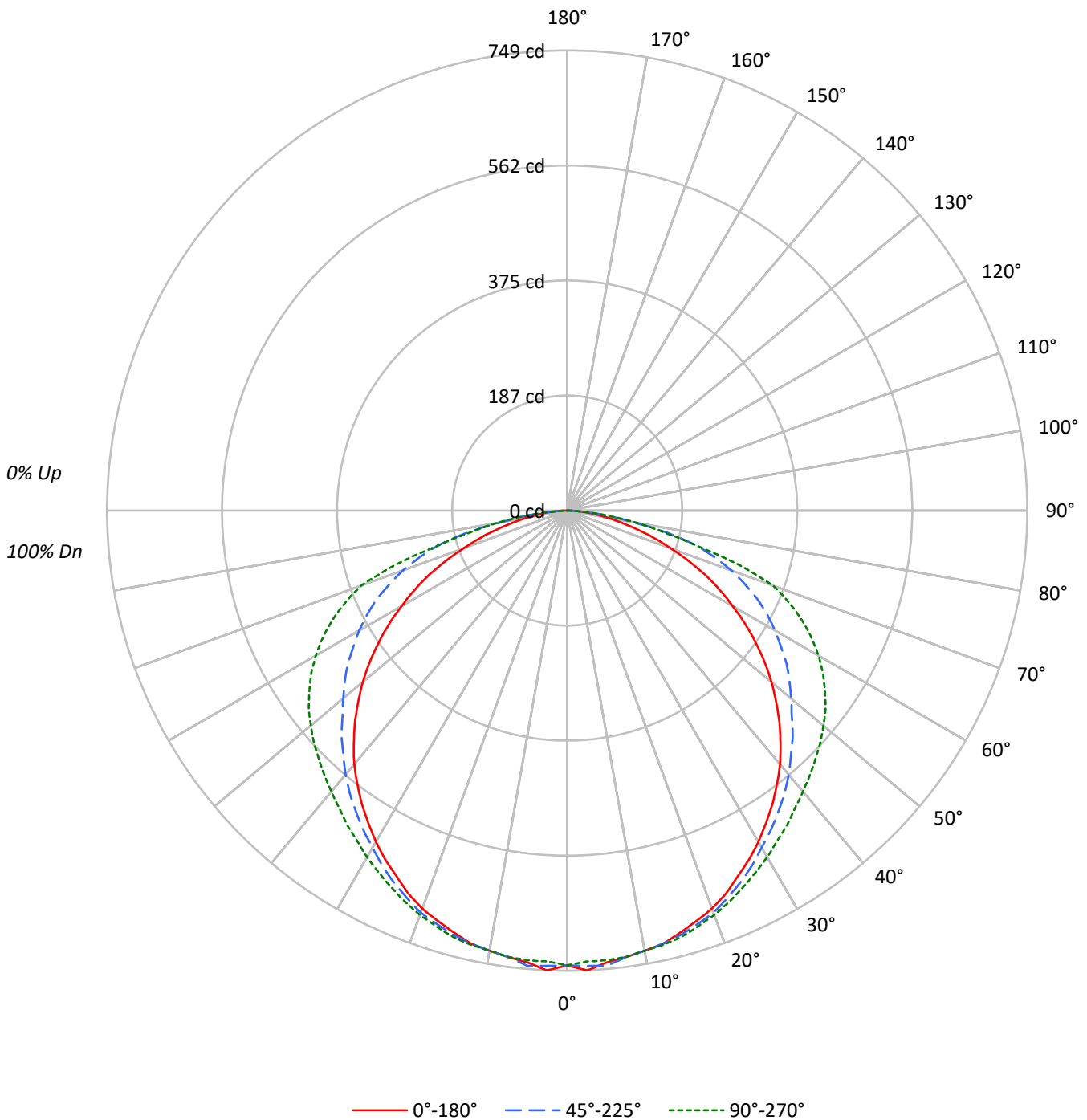
Lumens per Lamp: N/A  
Luminaire Lumens: 2330.1 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	996	996	996
5°	995	1000	988
10°	989	985	985
15°	984	982	987
20°	978	979	985
25°	964	967	982
30°	953	955	984
35°	941	949	991
40°	928	943	1007
45°	907	938	1036
50°	883	937	1076
55°	848	951	1121
60°	803	963	1170
65°	749	978	1212
70°	659	975	1233
75°	559	934	935
80°	455	636	699
85°	348	348	320



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.3	3.0
10°-20°	201.8	8.7
20°-30°	307.5	13.2
30°-40°	376.3	16.1
40°-50°	404.9	17.4
50°-60°	392.2	16.8
60°-70°	332.2	14.3
70°-80°	200.8	8.6
80°-90°	44.1	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°	579.6	24.9
0°-40°	955.9	41.0
0°-60°	1752.9	75.2
0°-90°	2330.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2330.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	738	738	744	740	735	70
15°	711	713	715	717	718	201
25°	657	660	668	673	677	303
35°	583	586	599	615	624	364
45°	489	498	519	552	572	377
55°	375	391	436	487	512	335
65°	248	275	342	396	422	244
75°	118	159	215	219	214	126
85°	29	34	36	34	33	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	740.1	740.1	740.1	740.1	740.1
2.5°	749.1	747.3	741.9	738.3	734.7
5°	738.3	738.3	743.7	740.1	734.7
7.5°	732.9	732.9	732.9	741.9	732.9
10°	727.4	729.2	727.4	734.7	727.4
12.5°	722.0	722.0	722.0	723.8	723.8
15°	711.1	712.9	714.8	716.6	718.4
17.5°	700.3	702.1	705.7	707.5	709.3
20°	689.4	691.2	696.7	696.7	700.3
22.5°	674.9	674.9	682.2	684.0	689.4
25°	656.9	660.5	667.7	673.1	676.8
27.5°	640.6	644.2	651.4	658.7	664.1
30°	622.5	626.1	633.3	644.2	651.4
32.5°	602.6	606.2	617.0	629.7	636.9
35°	582.7	586.3	599.0	615.2	624.3
37.5°	561.0	566.4	580.9	599.0	609.8
40°	539.2	544.7	561.0	580.9	597.1
42.5°	513.9	521.1	539.2	566.4	584.5
45°	488.6	497.6	519.3	551.9	571.8
47.5°	461.4	470.5	495.8	537.4	559.1
50°	434.3	445.1	475.9	521.1	544.7
52.5°	405.3	416.2	456.0	504.9	530.2
55°	374.6	390.9	436.1	486.8	512.1
57.5°	343.8	361.9	412.6	466.9	494.0
60°	311.2	333.0	390.9	445.1	472.3
62.5°	280.5	304.0	367.3	421.6	448.8
65°	247.9	275.0	342.0	396.3	421.6
67.5°	213.5	247.9	313.0	365.5	390.9
70°	179.1	219.0	284.1	333.0	356.5
72.5°	148.4	190.0	251.5	293.1	293.1
75°	117.6	159.2	215.3	219.0	213.5
77.5°	90.5	130.3	168.3	153.8	157.4
80°	67.0	99.5	106.8	112.2	115.8
82.5°	45.2	67.0	68.8	72.4	72.4
85°	29.0	34.4	36.2	34.4	32.6
87.5°	12.7	14.5	10.9	7.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)