

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-RDP-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-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2221.1 lumens
Efficiency: N/A
Efficacy: 94.5 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

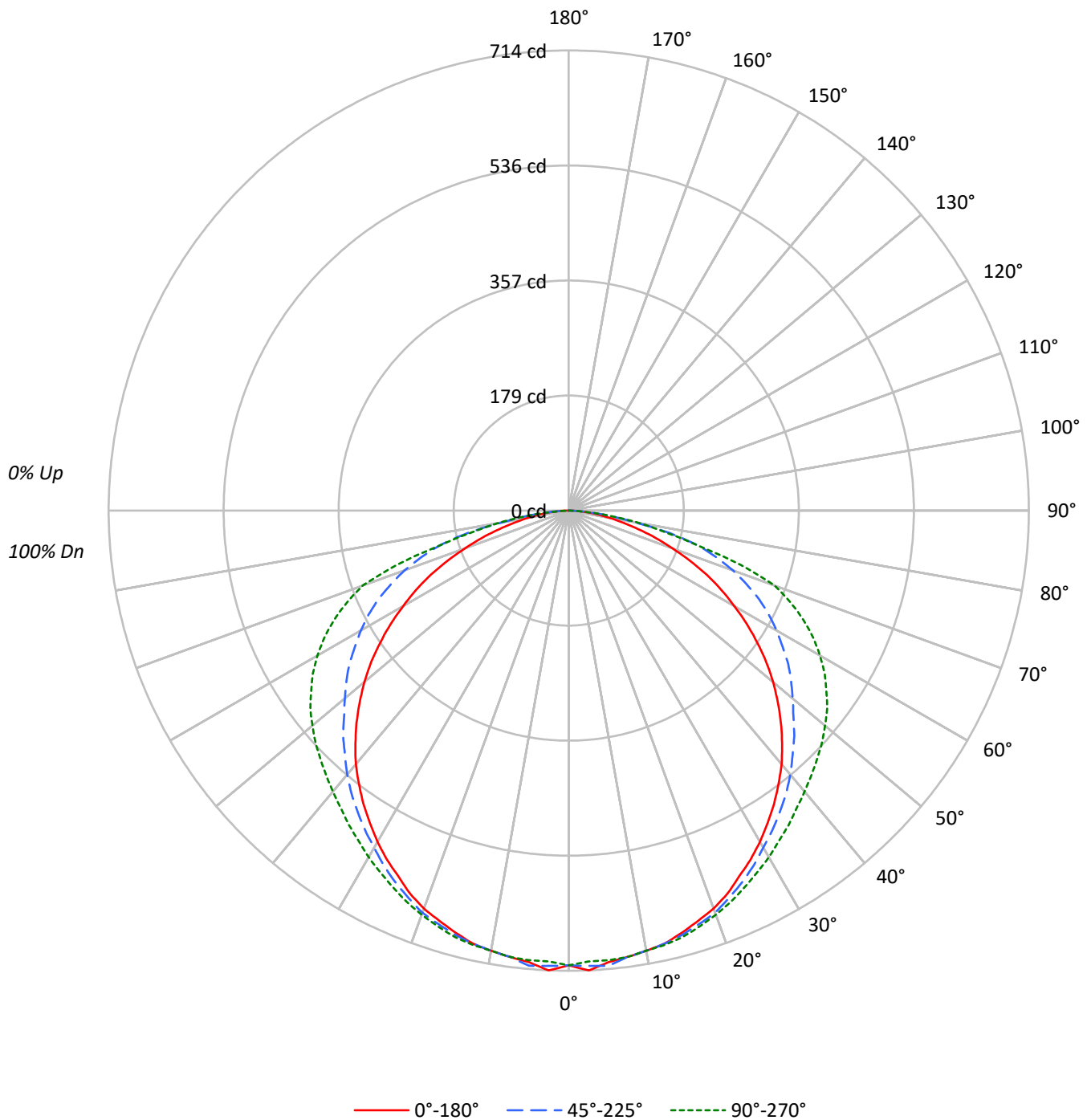
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	949	949	949
5°	948	953	942
10°	943	939	939
15°	938	936	941
20°	933	933	939
25°	919	922	936
30°	909	910	938
35°	897	904	944
40°	884	899	959
45°	865	894	988
50°	842	893	1026
55°	809	906	1069
60°	765	918	1115
65°	714	932	1156
70°	629	930	1175
75°	533	891	892
80°	433	606	666
85°	331	332	305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.0
10°-20°	192.4	8.7
20°-30°	293.2	13.2
30°-40°	358.7	16.1
40°-50°	385.9	17.4
50°-60°	373.8	16.8
60°-70°	316.7	14.3
70°-80°	191.4	8.6
80°-90°	42.1	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°	552.5	24.9
0°-40°	911.2	41.0
0°-60°	1670.9	75.2
0°-90°	2221.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2221.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	704	704	709	706	700	67
15°	678	680	681	683	685	191
25°	626	630	636	642	645	289
35°	555	559	571	586	595	347
45°	466	474	495	526	545	359
55°	357	373	416	464	488	319
65°	236	262	326	378	402	233
75°	112	152	205	209	204	120
85°	28	33	34	33	31	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.5	705.5	705.5	705.5	705.5
2.5°	714.1	712.4	707.2	703.7	700.3
5°	703.7	703.7	708.9	705.5	700.3
7.5°	698.6	698.6	698.6	707.2	698.6
10°	693.4	695.1	693.4	700.3	693.4
12.5°	688.2	688.2	688.2	690.0	690.0
15°	677.9	679.6	681.3	683.1	684.8
17.5°	667.5	669.3	672.7	674.4	676.2
20°	657.2	658.9	664.1	664.1	667.5
22.5°	643.4	643.4	650.3	652.0	657.2
25°	626.1	629.6	636.5	641.7	645.1
27.5°	610.6	614.1	621.0	627.9	633.0
30°	593.4	596.8	603.7	614.1	621.0
32.5°	574.4	577.8	588.2	600.3	607.2
35°	555.4	558.9	570.9	586.5	595.1
37.5°	534.7	539.9	553.7	570.9	581.3
40°	514.0	519.2	534.7	553.7	569.2
42.5°	489.9	496.8	514.0	539.9	557.1
45°	465.7	474.3	495.0	526.1	545.1
47.5°	439.8	448.5	472.6	512.3	533.0
50°	414.0	424.3	453.6	496.8	519.2
52.5°	386.4	396.7	434.7	481.2	505.4
55°	357.0	372.6	415.7	464.0	488.1
57.5°	327.7	345.0	393.3	445.0	470.9
60°	296.7	317.4	372.6	424.3	450.2
62.5°	267.4	289.8	350.1	401.9	427.8
65°	236.3	262.2	326.0	377.7	401.9
67.5°	203.5	236.3	298.4	348.4	372.6
70°	170.8	208.7	270.8	317.4	339.8
72.5°	141.4	181.1	239.8	279.4	279.4
75°	112.1	151.8	205.3	208.7	203.5
77.5°	86.2	124.2	160.4	146.6	150.1
80°	63.8	94.9	101.8	106.9	110.4
82.5°	43.1	63.8	65.5	69.0	69.0
85°	27.6	32.8	34.5	32.8	31.0
87.5°	12.1	13.8	10.3	6.9	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)