

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-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-LD5-30SE-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2053.3 lumens
Efficiency: N/A
Efficacy: 87.4 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

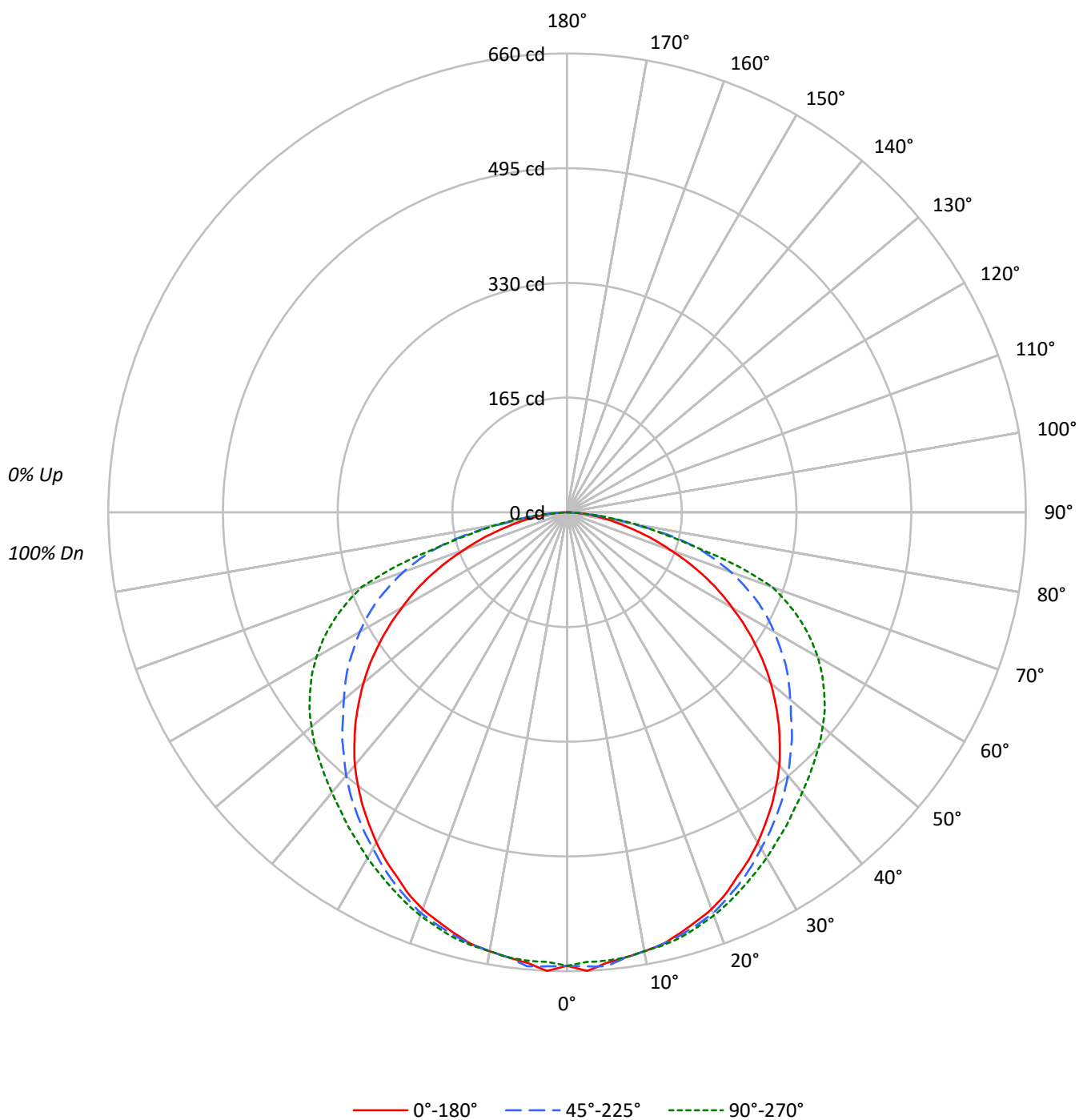
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
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°	878	878	878
5°	877	881	871
10°	872	868	868
15°	867	865	870
20°	862	862	868
25°	849	852	865
30°	840	841	867
35°	829	836	873
40°	817	831	887
45°	799	827	913
50°	778	826	948
55°	748	838	988
60°	707	849	1031
65°	660	862	1068
70°	581	859	1086
75°	493	824	825
80°	400	561	616
85°	306	307	282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	3.0
10°-20°	177.8	8.7
20°-30°	271.0	13.2
30°-40°	331.6	16.1
40°-50°	356.8	17.4
50°-60°	345.6	16.8
60°-70°	292.8	14.3
70°-80°	176.9	8.6
80°-90°	38.9	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°	510.8	24.9
0°-40°	842.3	41.0
0°-60°	1544.7	75.2
0°-90°	2053.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2053.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	651	651	655	652	647	62
15°	627	628	630	632	633	177
25°	579	582	588	593	596	267
35°	514	517	528	542	550	321
45°	430	438	458	486	504	332
55°	330	344	384	429	451	295
65°	218	242	301	349	372	215
75°	104	140	190	193	188	111
85°	26	30	32	30	29	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.2	652.2	652.2	652.2	652.2
2.5°	660.2	658.6	653.8	650.6	647.4
5°	650.6	650.6	655.4	652.2	647.4
7.5°	645.8	645.8	645.8	653.8	645.8
10°	641.0	642.6	641.0	647.4	641.0
12.5°	636.2	636.2	636.2	637.8	637.8
15°	626.7	628.3	629.9	631.5	633.1
17.5°	617.1	618.7	621.9	623.5	625.1
20°	607.5	609.1	613.9	613.9	617.1
22.5°	594.8	594.8	601.2	602.8	607.5
25°	578.8	582.0	588.4	593.2	596.4
27.5°	564.5	567.7	574.1	580.4	585.2
30°	548.5	551.7	558.1	567.7	574.1
32.5°	531.0	534.2	543.8	554.9	561.3
35°	513.5	516.6	527.8	542.2	550.1
37.5°	494.3	499.1	511.9	527.8	537.4
40°	475.2	480.0	494.3	511.9	526.2
42.5°	452.9	459.2	475.2	499.1	515.1
45°	430.5	438.5	457.6	486.3	503.9
47.5°	406.6	414.6	436.9	473.6	492.7
50°	382.7	392.3	419.4	459.2	480.0
52.5°	357.2	366.8	401.8	444.9	467.2
55°	330.1	344.4	384.3	428.9	451.3
57.5°	303.0	318.9	363.6	411.4	435.3
60°	274.3	293.4	344.4	392.3	416.2
62.5°	247.2	267.9	323.7	371.5	395.5
65°	218.5	242.4	301.4	349.2	371.5
67.5°	188.2	218.5	275.9	322.1	344.4
70°	157.9	192.9	250.3	293.4	314.1
72.5°	130.8	167.4	221.6	258.3	258.3
75°	103.6	140.3	189.8	192.9	188.2
77.5°	79.7	114.8	148.3	135.5	138.7
80°	59.0	87.7	94.1	98.9	102.1
82.5°	39.9	59.0	60.6	63.8	63.8
85°	25.5	30.3	31.9	30.3	28.7
87.5°	11.2	12.8	9.6	6.4	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)