

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-LD5-30-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-LD5-30-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

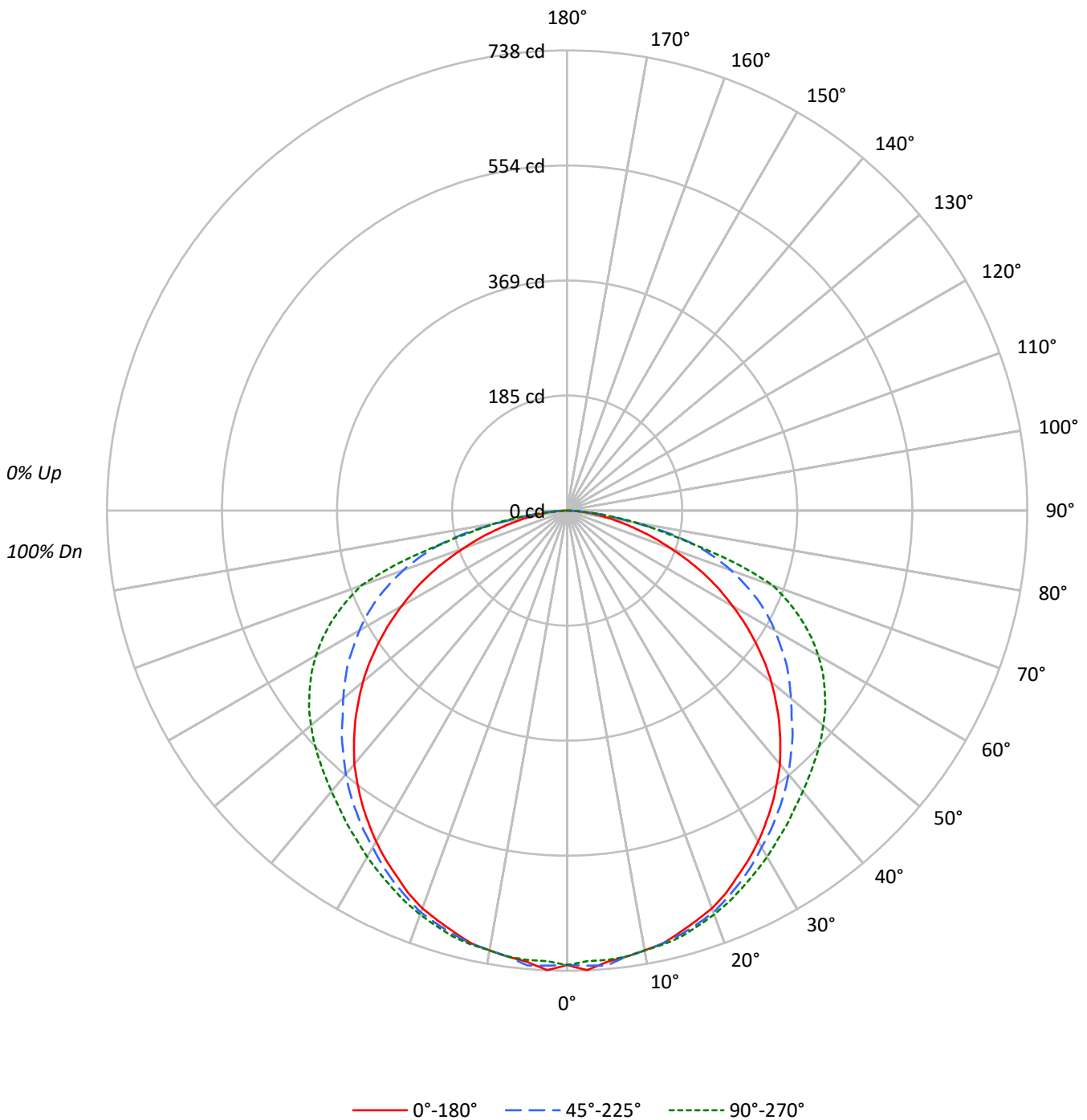
Lumens per Lamp: N/A
Luminaire Lumens: 2294.2 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 21.62
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°	980	980	980
5°	980	984	973
10°	974	969	970
15°	969	967	972
20°	963	964	970
25°	949	952	967
30°	939	940	969
35°	926	934	976
40°	913	929	991
45°	893	924	1020
50°	869	923	1059
55°	835	936	1104
60°	791	948	1152
65°	738	962	1194
70°	649	960	1214
75°	551	920	921
80°	447	626	688
85°	342	342	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	3.0
10°-20°	198.7	8.7
20°-30°	302.8	13.2
30°-40°	370.5	16.1
40°-50°	398.6	17.4
50°-60°	386.1	16.8
60°-70°	327.1	14.3
70°-80°	197.7	8.6
80°-90°	43.5	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°	570.7	24.9
0°-40°	941.2	41.0
0°-60°	1726.0	75.2
0°-90°	2294.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2294.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	727	727	732	729	723	69
15°	700	702	704	706	707	198
25°	647	650	657	663	666	299
35°	574	577	590	606	615	359
45°	481	490	511	543	563	371
55°	369	385	429	479	504	329
65°	244	271	337	390	415	240
75°	116	157	212	216	210	124
85°	28	34	36	34	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.7	728.7	728.7	728.7	728.7
2.5°	737.6	735.8	730.5	726.9	723.4
5°	726.9	726.9	732.3	728.7	723.4
7.5°	721.6	721.6	721.6	730.5	721.6
10°	716.2	718.0	716.2	723.4	716.2
12.5°	710.9	710.9	710.9	712.7	712.7
15°	700.2	702.0	703.8	705.6	707.3
17.5°	689.5	691.3	694.9	696.6	698.4
20°	678.8	680.6	686.0	686.0	689.5
22.5°	664.6	664.6	671.7	673.5	678.8
25°	646.8	650.3	657.4	662.8	666.4
27.5°	630.7	634.3	641.4	648.5	653.9
30°	612.9	616.5	623.6	634.3	641.4
32.5°	593.3	596.9	607.6	620.0	627.2
35°	573.7	577.3	589.7	605.8	614.7
37.5°	552.3	557.7	571.9	589.7	600.4
40°	530.9	536.3	552.3	571.9	588.0
42.5°	506.0	513.1	530.9	557.7	575.5
45°	481.1	490.0	511.3	543.4	563.0
47.5°	454.3	463.2	488.2	529.2	550.5
50°	427.6	438.3	468.6	513.1	536.3
52.5°	399.1	409.8	449.0	497.1	522.0
55°	368.8	384.8	429.4	479.3	504.2
57.5°	338.5	356.3	406.2	459.7	486.4
60°	306.5	327.8	384.8	438.3	465.0
62.5°	276.2	299.3	361.7	415.1	441.9
65°	244.1	270.8	336.7	390.2	415.1
67.5°	210.2	244.1	308.2	359.9	384.8
70°	176.4	215.6	279.7	327.8	351.0
72.5°	146.1	187.1	247.7	288.6	288.6
75°	115.8	156.8	212.0	215.6	210.2
77.5°	89.1	128.3	165.7	151.4	155.0
80°	65.9	98.0	105.1	110.5	114.0
82.5°	44.5	65.9	67.7	71.3	71.3
85°	28.5	33.9	35.6	33.9	32.1
87.5°	12.5	14.3	10.7	7.1	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)