

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-LD5-45-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-LD5-45-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

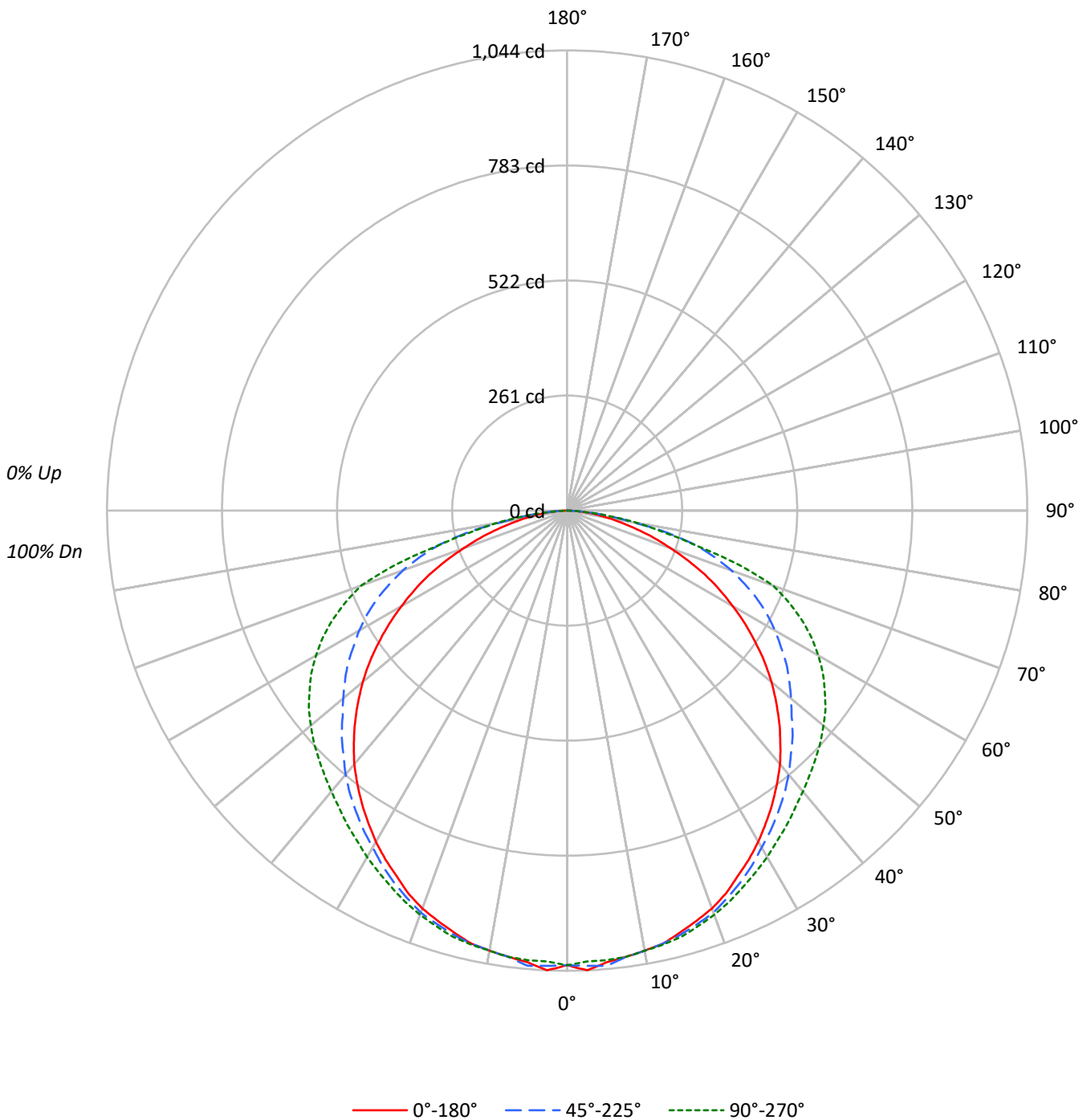
Lumens per Lamp: N/A
Luminaire Lumens: 3247.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 35.69
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	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°	1388	1388	1388
5°	1386	1393	1377
10°	1379	1372	1373
15°	1371	1368	1376
20°	1363	1364	1372
25°	1343	1348	1368
30°	1328	1331	1371
35°	1311	1322	1381
40°	1293	1314	1403
45°	1264	1308	1444
50°	1230	1306	1499
55°	1182	1325	1562
60°	1119	1342	1630
65°	1044	1362	1689
70°	919	1359	1718
75°	779	1302	1303
80°	633	886	974
85°	484	484	446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.0
10°-20°	281.2	8.7
20°-30°	428.5	13.2
30°-40°	524.3	16.1
40°-50°	564.2	17.4
50°-60°	546.5	16.8
60°-70°	462.9	14.3
70°-80°	279.8	8.6
80°-90°	61.5	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°	807.7	24.9
0°-40°	1332.0	41.0
0°-60°	2442.7	75.2
0°-90°	3247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1029	1029	1036	1031	1024	98
15°	991	994	996	998	1001	280
25°	915	920	930	938	943	423
35°	812	817	835	857	870	508
45°	681	693	724	769	797	525
55°	522	545	608	678	714	466
65°	346	383	477	552	588	340
75°	164	222	300	305	298	176
85°	40	48	50	48	45	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1031.3	1031.3	1031.3	1031.3	1031.3
2.5°	1043.9	1041.4	1033.8	1028.8	1023.8
5°	1028.8	1028.8	1036.4	1031.3	1023.8
7.5°	1021.2	1021.2	1021.2	1033.8	1021.2
10°	1013.7	1016.2	1013.7	1023.8	1013.7
12.5°	1006.1	1006.1	1006.1	1008.6	1008.6
15°	991.0	993.5	996.0	998.5	1001.1
17.5°	975.9	978.4	983.4	985.9	988.5
20°	960.7	963.2	970.8	970.8	975.9
22.5°	940.5	940.5	950.6	953.2	960.7
25°	915.3	920.4	930.5	938.0	943.1
27.5°	892.6	897.7	907.8	917.9	925.4
30°	867.4	872.5	882.6	897.7	907.8
32.5°	839.7	844.7	859.9	877.5	887.6
35°	811.9	817.0	834.6	857.3	869.9
37.5°	781.7	789.3	809.4	834.6	849.8
40°	751.4	759.0	781.7	809.4	832.1
42.5°	716.1	726.2	751.4	789.3	814.5
45°	680.8	693.4	723.7	769.1	796.8
47.5°	643.0	655.6	690.9	748.9	779.2
50°	605.2	620.3	663.2	726.2	759.0
52.5°	564.8	580.0	635.4	703.5	738.8
55°	522.0	544.7	607.7	678.3	713.6
57.5°	479.1	504.3	574.9	650.6	688.4
60°	433.7	464.0	544.7	620.3	658.1
62.5°	390.8	423.6	511.9	587.5	625.4
65°	345.5	383.3	476.6	552.2	587.5
67.5°	297.5	345.5	436.2	509.4	544.7
70°	249.6	305.1	395.9	464.0	496.8
72.5°	206.8	264.8	350.5	408.5	408.5
75°	163.9	221.9	300.1	305.1	297.5
77.5°	126.1	181.6	234.5	214.3	219.4
80°	93.3	138.7	148.8	156.3	161.4
82.5°	63.0	93.3	95.8	100.9	100.9
85°	40.3	47.9	50.4	47.9	45.4
87.5°	17.7	20.2	15.1	10.1	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)