

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-SQP-UNV-L835-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-SQP-UNV-L835-CD1-U  
Description:

Light Source: -  
Ballast/Driver: -

**Summary**

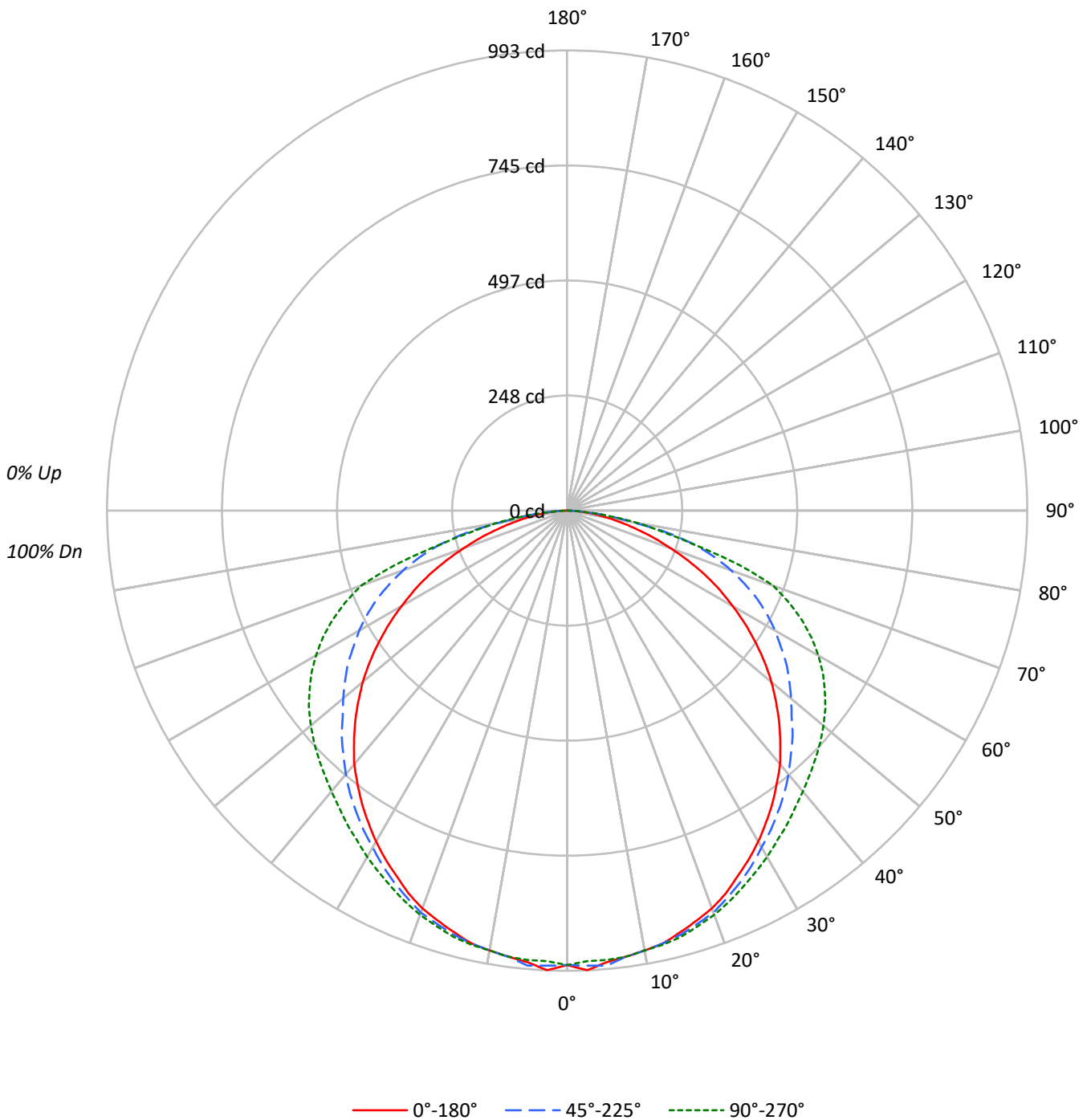
Lumens per Lamp: N/A  
Luminaire Lumens: 3087.3 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 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°	1319	1319	1319
5°	1318	1325	1309
10°	1311	1305	1305
15°	1304	1301	1308
20°	1296	1297	1305
25°	1277	1282	1301
30°	1263	1265	1303
35°	1246	1257	1313
40°	1229	1250	1334
45°	1202	1243	1373
50°	1170	1242	1426
55°	1124	1260	1486
60°	1064	1276	1550
65°	993	1295	1606
70°	874	1292	1634
75°	741	1238	1239
80°	602	843	926
85°	461	461	424



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	3.0
10°-20°	267.4	8.7
20°-30°	407.5	13.2
30°-40°	498.6	16.1
40°-50°	536.4	17.4
50°-60°	519.6	16.8
60°-70°	440.2	14.3
70°-80°	266.1	8.6
80°-90°	58.5	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°	767.9	24.9
0°-40°	1266.5	41.0
0°-60°	2322.6	75.2
0°-90°	3087.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3087.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	981	981	981	981	981	
5°	978	978	985	981	973	93
15°	942	945	947	949	952	266
25°	870	875	885	892	897	402
35°	772	777	794	815	827	483
45°	647	659	688	731	758	499
55°	496	518	578	645	678	443
65°	328	364	453	525	559	323
75°	156	211	285	290	283	167
85°	38	46	48	46	43	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	980.6	980.6	980.6	980.6	980.6
2.5°	992.6	990.2	983.0	978.2	973.4
5°	978.2	978.2	985.4	980.6	973.4
7.5°	971.0	971.0	971.0	983.0	971.0
10°	963.8	966.2	963.8	973.4	963.8
12.5°	956.6	956.6	956.6	959.0	959.0
15°	942.2	944.6	947.0	949.4	951.8
17.5°	927.9	930.2	935.0	937.4	939.8
20°	913.5	915.9	923.1	923.1	927.9
22.5°	894.3	894.3	903.9	906.3	913.5
25°	870.3	875.1	884.7	891.9	896.7
27.5°	848.7	853.5	863.1	872.7	879.9
30°	824.8	829.6	839.1	853.5	863.1
32.5°	798.4	803.2	817.6	834.3	843.9
35°	772.0	776.8	793.6	815.2	827.2
37.5°	743.2	750.4	769.6	793.6	808.0
40°	714.5	721.7	743.2	769.6	791.2
42.5°	680.9	690.5	714.5	750.4	774.4
45°	647.3	659.3	688.1	731.3	757.6
47.5°	611.4	623.4	656.9	712.1	740.8
50°	575.4	589.8	630.6	690.5	721.7
52.5°	537.1	551.4	604.2	668.9	702.5
55°	496.3	517.9	577.8	644.9	678.5
57.5°	455.5	479.5	546.6	618.6	654.5
60°	412.4	441.1	517.9	589.8	625.8
62.5°	371.6	402.8	486.7	558.6	594.6
65°	328.5	364.4	453.1	525.1	558.6
67.5°	282.9	328.5	414.8	484.3	517.9
70°	237.4	290.1	376.4	441.1	472.3
72.5°	196.6	251.7	333.3	388.4	388.4
75°	155.8	211.0	285.3	290.1	282.9
77.5°	119.9	172.6	223.0	203.8	208.6
80°	88.7	131.9	141.5	148.6	153.4
82.5°	59.9	88.7	91.1	95.9	95.9
85°	38.4	45.6	48.0	45.6	43.2
87.5°	16.8	19.2	14.4	9.6	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)