

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-LD5-35SE-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-LD5-35SE-SQP-UNV-L850-CD1-U  
Description:

Light Source: -  
Ballast/Driver: -

**Summary**

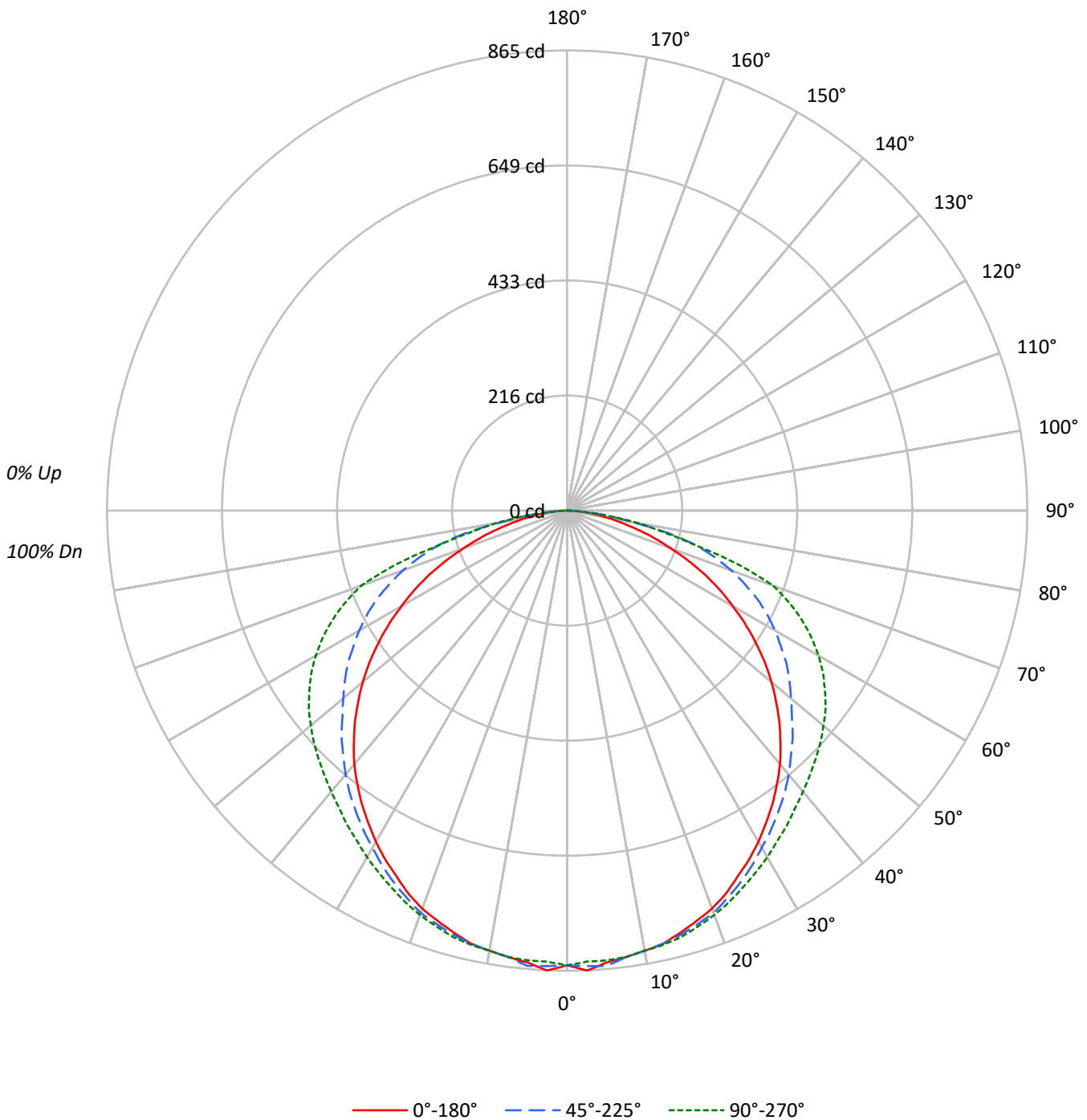
Lumens per Lamp: N/A  
Luminaire Lumens: 2691.3 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 28.57  
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°	1150	1150	1150
5°	1149	1155	1141
10°	1143	1137	1138
15°	1137	1134	1141
20°	1130	1130	1138
25°	1113	1117	1134
30°	1101	1103	1136
35°	1086	1096	1144
40°	1071	1089	1163
45°	1048	1084	1197
50°	1020	1082	1243
55°	980	1098	1295
60°	927	1113	1351
65°	865	1129	1400
70°	762	1127	1424
75°	646	1079	1080
80°	525	734	808
85°	401	402	369



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	3.0
10°-20°	233.1	8.7
20°-30°	355.2	13.2
30°-40°	434.6	16.1
40°-50°	467.6	17.4
50°-60°	453.0	16.8
60°-70°	383.7	14.3
70°-80°	232.0	8.6
80°-90°	51.0	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°	669.5	24.9
0°-40°	1104.1	41.0
0°-60°	2024.7	75.2
0°-90°	2691.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2691.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	853	853	859	855	849	81
15°	821	824	826	828	830	232
25°	759	763	771	778	782	350
35°	673	677	692	711	721	421
45°	564	575	600	638	660	435
55°	433	452	504	562	592	386
65°	286	318	395	458	487	282
75°	136	184	249	253	247	146
85°	33	40	42	40	38	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	854.8	854.8	854.8	854.8	854.8
2.5°	865.3	863.2	856.9	852.8	848.6
5°	852.8	852.8	859.0	854.8	848.6
7.5°	846.5	846.5	846.5	856.9	846.5
10°	840.2	842.3	840.2	848.6	840.2
12.5°	833.9	833.9	833.9	836.0	836.0
15°	821.4	823.5	825.6	827.7	829.8
17.5°	808.9	811.0	815.1	817.2	819.3
20°	796.3	798.4	804.7	804.7	808.9
22.5°	779.6	779.6	788.0	790.1	796.3
25°	758.7	762.9	771.2	777.5	781.7
27.5°	739.9	744.1	752.4	760.8	767.1
30°	719.0	723.2	731.5	744.1	752.4
32.5°	696.0	700.2	712.7	727.4	735.7
35°	673.0	677.2	691.8	710.6	721.1
37.5°	647.9	654.2	670.9	691.8	704.4
40°	622.8	629.1	647.9	670.9	689.7
42.5°	593.6	601.9	622.8	654.2	675.1
45°	564.3	574.8	599.9	637.5	660.5
47.5°	533.0	543.4	572.7	620.8	645.8
50°	501.6	514.2	549.7	601.9	629.1
52.5°	468.2	480.7	526.7	583.1	612.4
55°	432.6	451.5	503.7	562.2	591.5
57.5°	397.1	418.0	476.5	539.2	570.6
60°	359.5	384.6	451.5	514.2	545.5
62.5°	324.0	351.1	424.3	487.0	518.3
65°	286.3	317.7	395.0	457.7	487.0
67.5°	246.6	286.3	361.6	422.2	451.5
70°	206.9	252.9	328.1	384.6	411.7
72.5°	171.4	219.5	290.5	338.6	338.6
75°	135.9	183.9	248.7	252.9	246.6
77.5°	104.5	150.5	194.4	177.7	181.8
80°	77.3	115.0	123.3	129.6	133.8
82.5°	52.3	77.3	79.4	83.6	83.6
85°	33.4	39.7	41.8	39.7	37.6
87.5°	14.6	16.7	12.5	8.4	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)