

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-LD5-35-RDP-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-LD5-35-RDP-UNV-L835-CD1-U  
Description:

Light Source: -  
Ballast/Driver: -

**Summary**

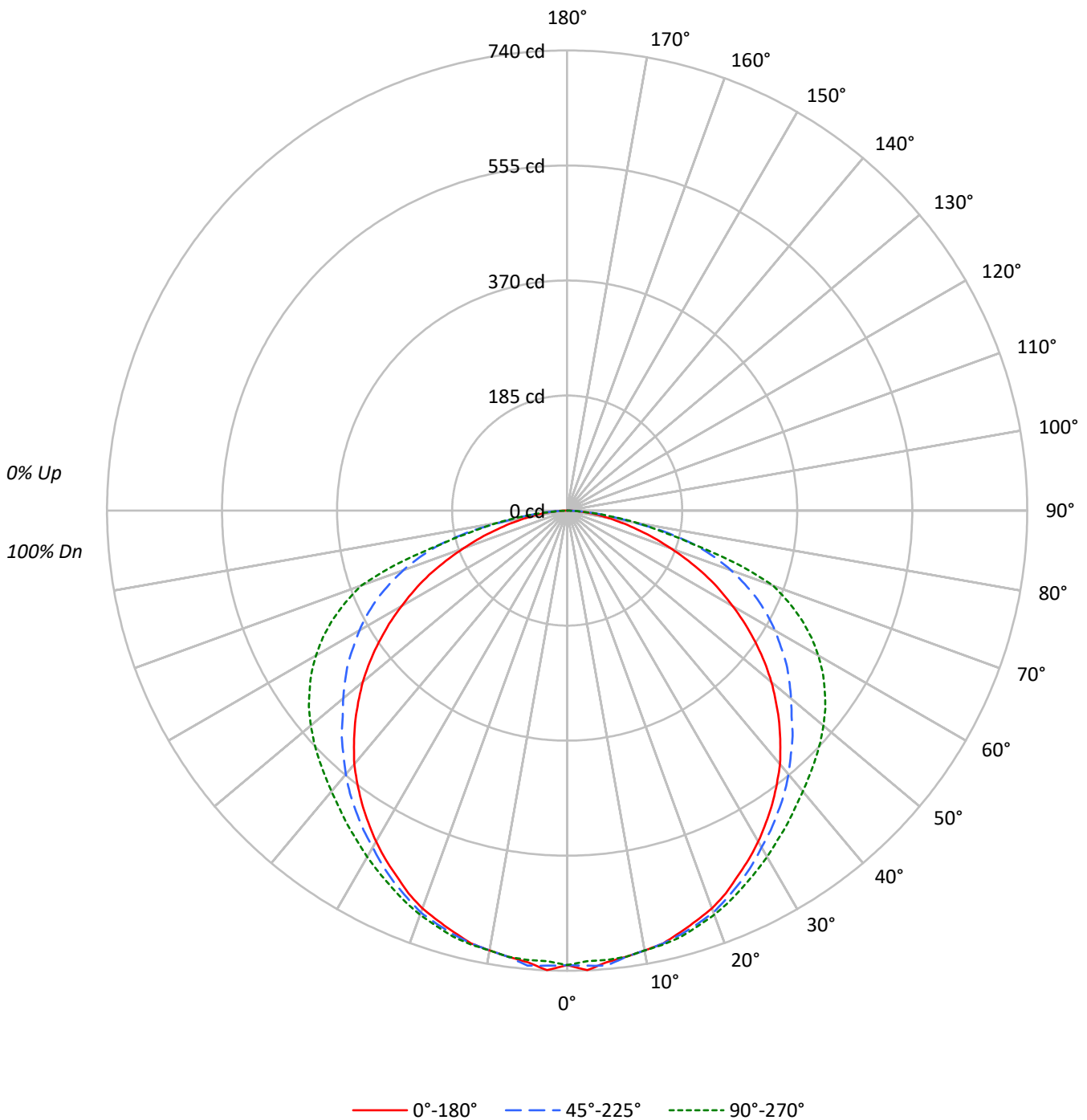
Lumens per Lamp: N/A  
Luminaire Lumens: 2300.8 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 25.32  
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°	983	983	983
5°	982	987	975
10°	977	972	973
15°	972	969	975
20°	966	966	972
25°	952	955	970
30°	941	943	971
35°	929	937	978
40°	916	931	994
45°	896	927	1023
50°	872	925	1062
55°	838	939	1107
60°	793	951	1155
65°	740	965	1197
70°	651	963	1217
75°	552	923	924
80°	449	628	691
85°	343	343	316



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	3.0
10°-20°	199.3	8.7
20°-30°	303.7	13.2
30°-40°	371.6	16.1
40°-50°	399.8	17.4
50°-60°	387.3	16.8
60°-70°	328.0	14.3
70°-80°	198.3	8.6
80°-90°	43.6	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°	572.3	24.9
0°-40°	943.9	41.0
0°-60°	1730.9	75.2
0°-90°	2300.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	729	729	734	731	725	69
15°	702	704	706	708	709	198
25°	649	652	659	665	668	299
35°	575	579	591	608	616	360
45°	482	491	513	545	565	372
55°	370	386	431	481	506	330
65°	245	272	338	391	416	241
75°	116	157	213	216	211	125
85°	29	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°	730.8	730.8	730.8	730.8	730.8
2.5°	739.7	737.9	732.6	729.0	725.4
5°	729.0	729.0	734.4	730.8	725.4
7.5°	723.7	723.7	723.7	732.6	723.7
10°	718.3	720.1	718.3	725.4	718.3
12.5°	712.9	712.9	712.9	714.7	714.7
15°	702.2	704.0	705.8	707.6	709.4
17.5°	691.5	693.3	696.9	698.6	700.4
20°	680.8	682.6	687.9	687.9	691.5
22.5°	666.5	666.5	673.6	675.4	680.8
25°	648.6	652.2	659.3	664.7	668.3
27.5°	632.5	636.1	643.2	650.4	655.8
30°	614.7	618.2	625.4	636.1	643.2
32.5°	595.0	598.6	609.3	621.8	629.0
35°	575.3	578.9	591.4	607.5	616.4
37.5°	553.9	559.3	573.6	591.4	602.2
40°	532.5	537.8	553.9	573.6	589.6
42.5°	507.4	514.6	532.5	559.3	577.1
45°	482.4	491.4	512.8	545.0	564.6
47.5°	455.6	464.6	489.6	530.7	552.1
50°	428.8	439.6	469.9	514.6	537.8
52.5°	400.2	411.0	450.3	498.5	523.5
55°	369.9	385.9	430.6	480.6	505.7
57.5°	339.5	357.4	407.4	461.0	487.8
60°	307.3	328.8	385.9	439.6	466.4
62.5°	277.0	300.2	362.7	416.3	443.1
65°	244.8	271.6	337.7	391.3	416.3
67.5°	210.8	244.8	309.1	360.9	385.9
70°	176.9	216.2	280.5	328.8	352.0
72.5°	146.5	187.6	248.4	289.5	289.5
75°	116.1	157.2	212.6	216.2	210.8
77.5°	89.3	128.6	166.2	151.9	155.5
80°	66.1	98.3	105.4	110.8	114.4
82.5°	44.7	66.1	67.9	71.5	71.5
85°	28.6	33.9	35.7	33.9	32.2
87.5°	12.5	14.3	10.7	7.1	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)