

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: P685567

Luminaire Tested: **8CZL-24-UNV-FL-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685567
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-UNV-FL-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

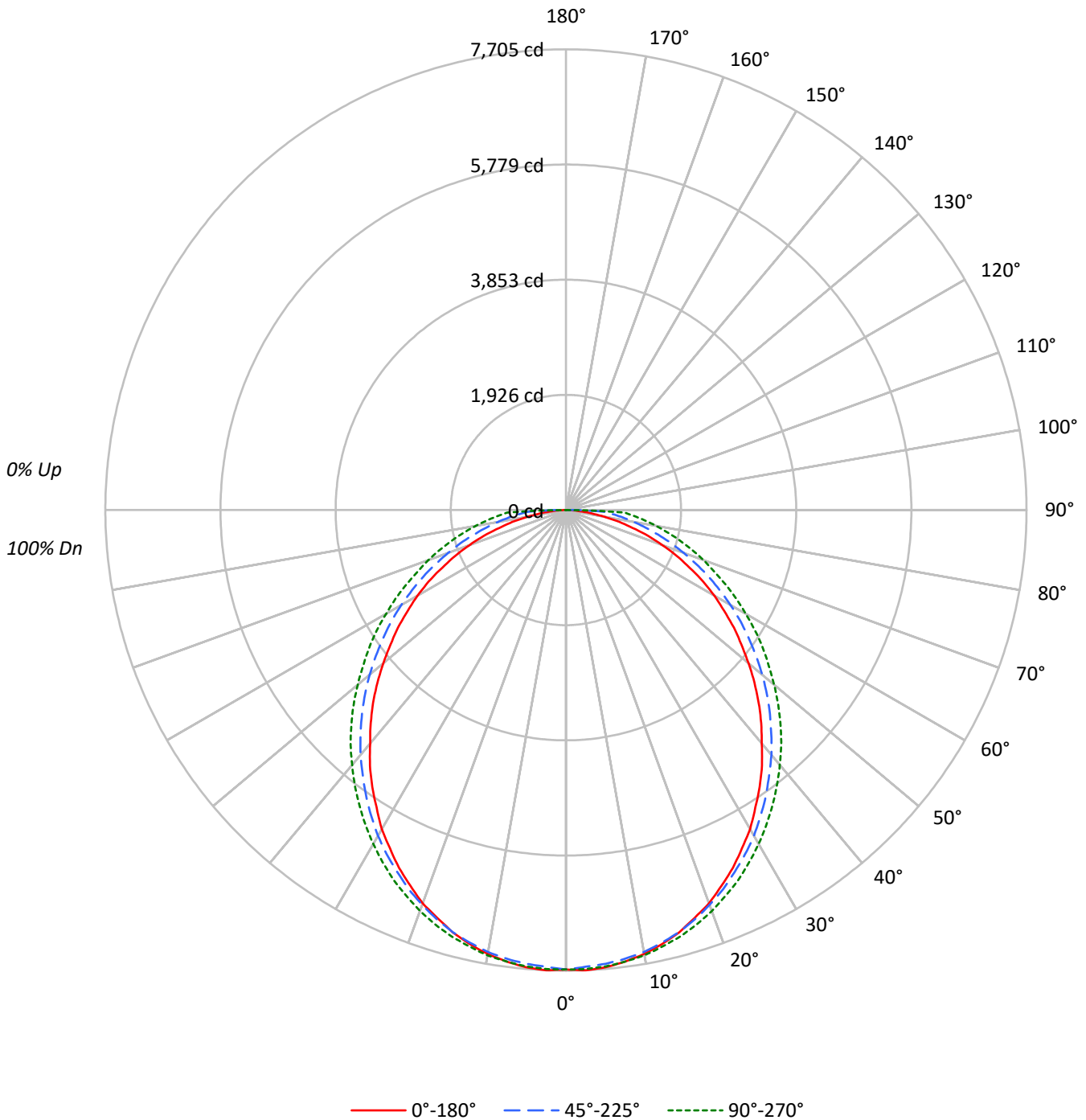
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21642.2 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 154
Input Voltage (V): 120
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

TEST NUMBER: P685567
CATALOG NUMBER: 8CZL-24-UNV-FL-L850-CD-U

Luminous Intensity Polar Plot





TEST NUMBER: P685567
 CATALOG NUMBER: 8CZL-24-UNV-FL-L850-CD-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	84	84	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	70	70	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	59	59	59	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	44	44	44	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	39	39	39	37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12405	12405	12405
5°	12430	12263	12310
10°	12337	12140	12186
15°	12189	11965	12020
20°	11984	11741	11832
25°	11711	11480	11619
30°	11419	11219	11367
35°	11057	10898	11097
40°	10650	10576	10823
45°	10307	10217	10538
50°	9892	9847	10204
55°	9511	9443	9903
60°	9093	9040	9559
65°	8536	8607	9258
70°	7889	8129	9075
75°	6928	7725	8970
80°	5693	7463	9090
85°	3819	7635	9847



TEST NUMBER: P685567
 CATALOG NUMBER: 8CZL-24-UNV-FL-L850-CD-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.8	3.4
10°-20°	2068.0	9.6
20°-30°	3088.7	14.3
30°-40°	3653.0	16.9
40°-50°	3722.1	17.2
50°-60°	3335.3	15.4
60°-70°	2597.8	12.0
70°-80°	1681.9	7.8
80°-90°	768.6	3.6
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°	5883.5	27.2
0°-40°	9536.5	44.1
0°-60°	16593.9	76.7
0°-90°	21642.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21642.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7683	7683	7683	7683	7683	
5°	7676	7663	7618	7663	7661	728
15°	7312	7312	7308	7377	7384	2059
25°	6606	6629	6678	6797	6826	3040
35°	5650	5704	5832	5989	6024	3531
45°	4561	4643	4824	5008	5076	3515
55°	3429	3526	3728	3943	4020	3061
65°	2284	2383	2630	2851	2943	2269
75°	1154	1301	1599	1865	1974	1238
85°	231	445	780	1062	1139	296
90°	0	0	0	0	0	



TEST NUMBER: P685567

CATALOG NUMBER: 8CZL-24-UNV-FL-L850-CD-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7683.3	7683.3	7683.3	7683.3	7683.3
2.5°	7705.2	7692.0	7645.3	7686.2	7684.7
5°	7676.0	7662.8	7617.6	7662.8	7661.4
7.5°	7616.1	7611.7	7570.8	7620.5	7616.1
10°	7538.7	7532.9	7506.6	7556.2	7563.5
12.5°	7436.5	7433.6	7413.1	7471.5	7475.9
15°	7312.3	7312.3	7308.0	7376.6	7383.9
17.5°	7153.2	7173.6	7178.0	7252.5	7268.5
20°	7001.3	7007.1	7027.6	7118.1	7137.1
22.5°	6801.2	6826.0	6866.9	6966.2	6982.3
25°	6605.5	6628.9	6678.5	6796.8	6826.0
27.5°	6377.7	6422.9	6491.6	6609.9	6639.1
30°	6161.5	6199.5	6288.6	6420.0	6449.2
32.5°	5897.2	5961.4	6063.7	6202.4	6241.8
35°	5650.4	5704.4	5831.5	5989.2	6024.2
37.5°	5386.0	5450.3	5584.7	5752.6	5800.8
40°	5096.9	5190.3	5346.6	5514.6	5565.7
42.5°	4832.5	4918.7	5083.7	5273.6	5332.0
45°	4560.9	4642.7	4823.8	5007.8	5076.4
47.5°	4277.6	4362.3	4559.4	4755.1	4816.5
50°	3987.0	4087.7	4284.9	4490.8	4546.3
52.5°	3697.8	3798.6	4007.4	4213.3	4276.1
55°	3429.1	3525.5	3728.5	3943.1	4020.5
57.5°	3137.0	3239.2	3462.7	3670.0	3753.3
60°	2866.8	2941.3	3177.9	3392.6	3472.9
62.5°	2587.9	2668.2	2898.9	3119.5	3214.4
65°	2284.1	2383.4	2630.2	2850.7	2942.8
67.5°	2006.6	2101.5	2355.7	2603.9	2678.4
70°	1718.9	1828.4	2091.3	2345.4	2450.6
72.5°	1444.4	1558.3	1847.4	2100.1	2206.7
75°	1153.7	1301.2	1599.2	1865.0	1974.5
77.5°	914.2	1060.3	1365.5	1643.0	1748.1
80°	648.4	828.1	1158.1	1438.5	1532.0
82.5°	432.3	614.8	961.0	1234.1	1334.8
85°	230.7	445.4	779.9	1061.7	1139.1
87.5°	100.8	311.1	632.4	883.6	975.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)