

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: P685868

Luminaire Tested: **8CZL-32-UNV-W-LVR-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685868
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-W-LVR-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

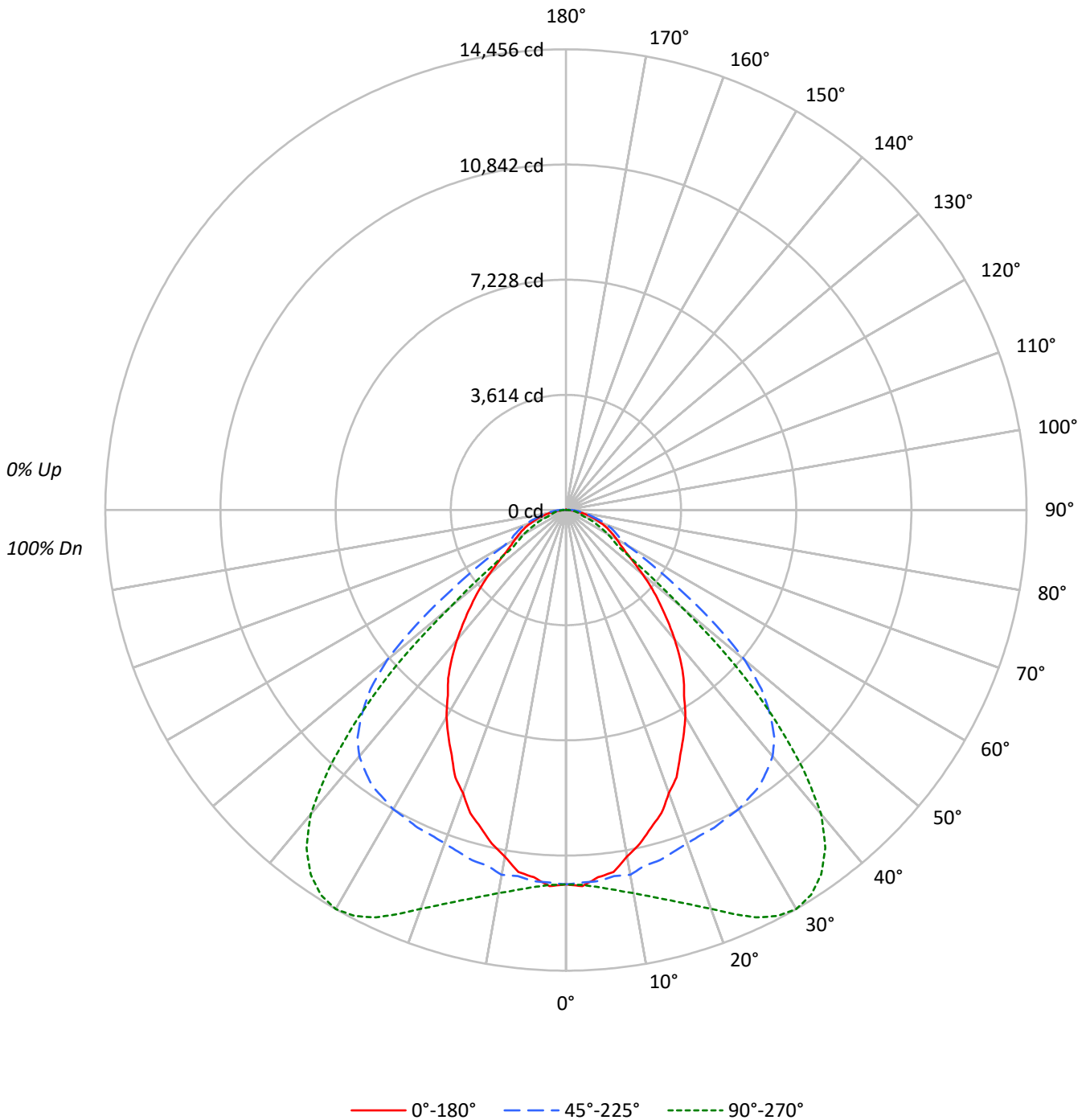
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27942.6 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.64 / 1.46
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 206
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: P685868
CATALOG NUMBER: 8CZL-32-UNV-W-LVR-L850-CD-U

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	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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66				
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	59	57				
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51				
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33				
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18963	18963	18963
5°	18746	18940	19251
10°	18099	19056	20017
15°	17248	19019	21194
20°	16235	19123	22876
25°	15116	19594	25125
30°	13974	20213	26951
35°	12697	20867	27517
40°	11194	21261	26253
45°	9542	20680	21047
50°	7908	18390	11943
55°	6441	12425	5713
60°	5947	7225	4935
65°	5733	6646	4012
70°	5410	6520	2867
75°	5035	5952	2787
80°	4590	5848	3060
85°	3520	7004	3375



TEST NUMBER: P685868
 CATALOG NUMBER: 8CZL-32-UNV-W-LVR-L850-CD-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1116.7	4.0
10°-20°	3241.7	11.6
20°-30°	5144.4	18.4
30°-40°	6425.2	23.0
40°-50°	5901.4	21.1
50°-60°	3149.4	11.3
60°-70°	1620.9	5.8
70°-80°	891.3	3.2
80°-90°	367.7	1.3
90°-100°	70.9	0.3
100°-110°	3.9	0.0
110°-120°	1.0	0.0
120°-130°	1.2	0.0
130°-140°	2.2	0.0
140°-150°	1.9	0.0
150°-160°	1.5	0.0
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-30°	9502.8	34.0
0°-40°	15928.0	57.0
0°-60°	24978.8	89.4
0°-90°	27858.6	99.7
90°-120°	75.8	0.3
90°-150°	81.1	0.3
90°-180°	84.0	0.3
0°-180°	27942.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11745	11745	11745	11745	11745	
5°	11566	11596	11686	11866	11878	1093
15°	10318	10655	11378	12305	12679	2901
25°	8485	9282	10998	13012	14103	3909
35°	6442	7631	10587	12897	13960	3999
45°	4179	6024	9057	9386	9218	3234
55°	2288	4102	4414	2472	2030	2113
65°	1501	1967	1740	1418	1050	1482
75°	807	895	954	848	447	857
85°	190	249	378	498	182	218
90°	0	70	186	302	39	8
95°	0	8	70	139	18	0
105°	0	2	2	2	0	0
115°	0	2	2	0	0	0
125°	0	2	2	0	0	1
135°	2	4	4	2	2	2
145°	2	4	4	2	2	1
155°	4	4	4	2	2	2
165°	4	6	4	2	2	1
175°	6	6	4	2	2	0
180°	4	4	4	4	4	



TEST NUMBER: P685868

CATALOG NUMBER: 8CZL-32-UNV-W-LVR-L850-CD-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11744.7	11744.7	11744.7	11744.7	11744.7
2.5°	11813.2	11787.8	11703.5	11779.9	11774.1
5°	11566.4	11595.8	11685.9	11866.1	11877.9
7.5°	11456.7	11537.0	11588.0	11977.8	12028.7
10°	11039.4	11164.8	11623.2	12028.7	12209.0
12.5°	10726.0	10978.7	11423.4	12111.0	12424.5
15°	10318.5	10655.4	11378.3	12305.0	12679.2
17.5°	9971.7	10316.5	11241.2	12451.9	12975.0
20°	9448.6	10073.6	11129.5	12604.7	13313.9
22.5°	9074.5	9707.2	11043.3	12739.9	13715.5
25°	8484.8	9282.1	10998.3	13012.2	14103.4
27.5°	7991.1	8923.6	10898.4	13186.6	14360.1
30°	7495.4	8484.8	10841.5	13217.9	14456.0
32.5°	6897.9	8128.2	10698.5	13145.4	14318.9
35°	6441.5	7630.6	10586.9	12896.6	13960.4
37.5°	5885.1	7238.8	10342.0	12446.0	13372.7
40°	5311.1	6876.4	10087.3	11742.7	12455.8
42.5°	4731.2	6468.9	9679.8	10804.3	11021.8
45°	4178.7	6024.2	9056.8	9385.9	9217.5
47.5°	3683.1	5546.2	8320.2	7607.1	7211.4
50°	3148.2	5060.3	7321.1	5791.0	4754.7
52.5°	2666.3	4654.8	5945.8	3922.1	2958.2
55°	2288.2	4102.3	4413.8	2472.4	2029.6
57.5°	2019.8	3679.2	3185.5	1955.2	1737.7
60°	1841.5	3150.2	2237.3	1794.5	1528.1
62.5°	1665.2	2491.9	1914.0	1635.8	1285.2
65°	1500.7	1966.9	1739.7	1418.4	1050.1
67.5°	1330.2	1596.6	1571.2	1287.1	875.7
70°	1146.1	1312.6	1381.2	1077.5	607.3
72.5°	981.5	1101.0	1175.4	920.8	515.2
75°	807.1	895.3	954.1	848.3	446.7
77.5°	640.6	720.9	777.8	768.0	391.8
80°	493.7	546.6	628.9	687.6	329.1
82.5°	337.0	376.1	495.6	593.6	256.6
85°	190.0	248.8	378.1	497.6	182.2
87.5°	54.9	146.9	274.3	399.7	105.8
90°	0.0	70.5	186.1	301.7	39.2
92.5°	0.0	27.4	121.5	211.6	27.4
95°	0.0	7.8	70.5	139.1	17.6
97.5°	0.0	2.0	33.3	82.3	7.8
100°	0.0	2.0	11.8	39.2	2.0
102.5°	0.0	2.0	3.9	13.7	0.0
105°	0.0	2.0	2.0	2.0	0.0
107.5°	0.0	2.0	2.0	0.0	0.0
110°	0.0	2.0	2.0	0.0	0.0



TEST NUMBER: P685868
CATALOG NUMBER: 8CZL-32-UNV-W-LVR-L850-CD-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	2.0	2.0	0.0	0.0
115°	0.0	2.0	2.0	0.0	0.0
117.5°	0.0	2.0	2.0	0.0	0.0
120°	0.0	2.0	2.0	0.0	0.0
122.5°	0.0	2.0	2.0	0.0	0.0
125°	0.0	2.0	2.0	0.0	0.0
127.5°	2.0	2.0	2.0	2.0	0.0
130°	2.0	3.9	3.9	2.0	0.0
132.5°	2.0	3.9	3.9	2.0	0.0
135°	2.0	3.9	3.9	2.0	2.0
137.5°	2.0	3.9	3.9	2.0	2.0
140°	2.0	3.9	3.9	2.0	2.0
142.5°	2.0	3.9	3.9	2.0	2.0
145°	2.0	3.9	3.9	2.0	2.0
147.5°	2.0	3.9	3.9	2.0	2.0
150°	2.0	3.9	3.9	2.0	2.0
152.5°	3.9	3.9	3.9	2.0	2.0
155°	3.9	3.9	3.9	2.0	2.0
157.5°	3.9	3.9	3.9	2.0	2.0
160°	3.9	3.9	3.9	2.0	2.0
162.5°	3.9	5.9	3.9	2.0	2.0
165°	3.9	5.9	3.9	2.0	2.0
167.5°	3.9	5.9	3.9	2.0	2.0
170°	3.9	5.9	3.9	2.0	2.0
172.5°	3.9	5.9	3.9	2.0	2.0
175°	5.9	5.9	3.9	2.0	2.0
177.5°	5.9	5.9	3.9	3.9	3.9
180°	3.9	3.9	3.9	3.9	3.9

(END OF REPORT)