

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: P685844

Luminaire Tested: **8CZL-10-UNV-W-LVR-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685844
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-W-LVR-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @80 CRI and 3500K
Light Source: (784) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

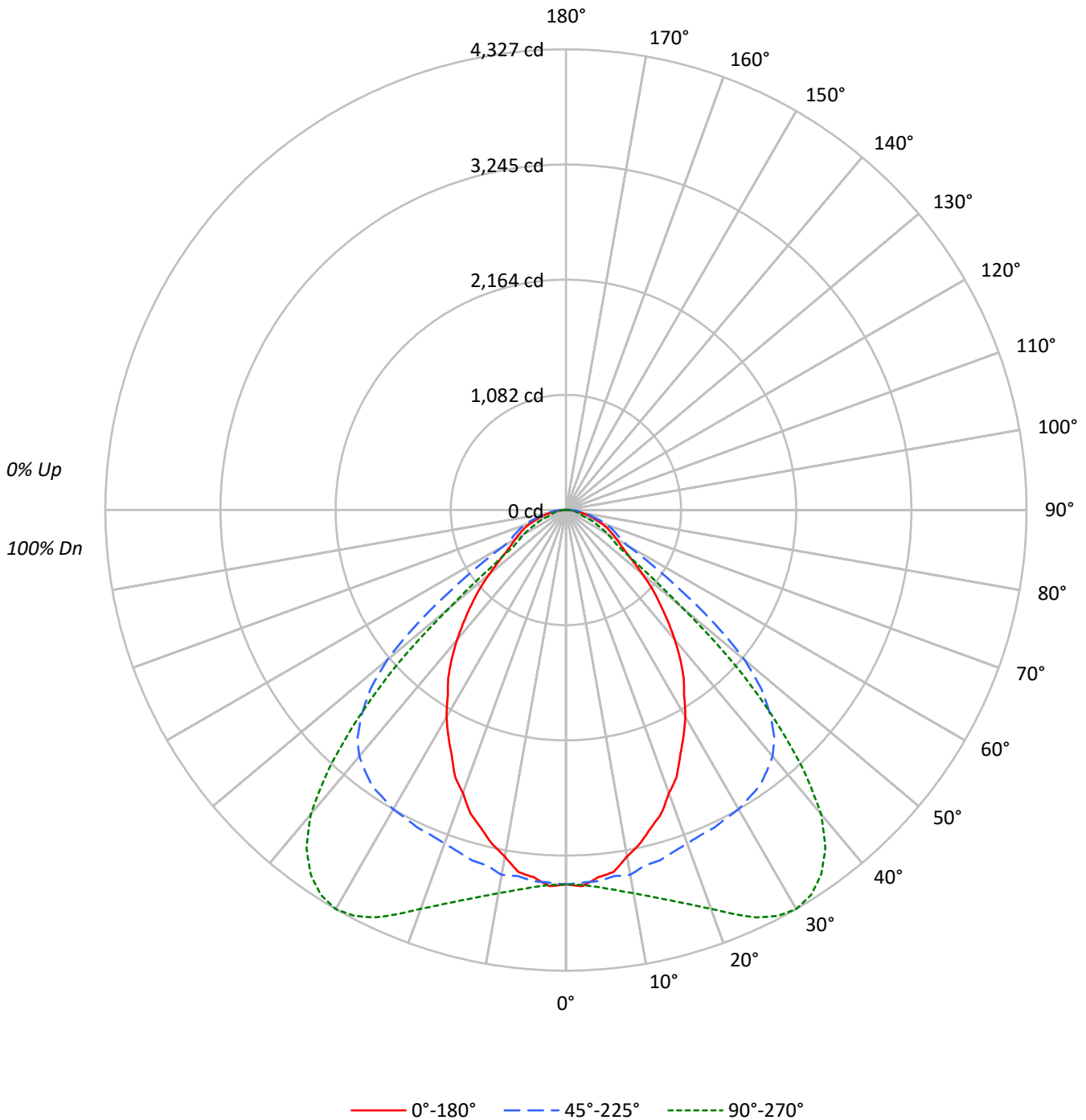
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8364.5 lumens
Efficiency: N/A
Efficacy: 132.8 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): 63
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: P685844
CATALOG NUMBER: 8CZL-10-UNV-W-LVR-L835-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	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°	5676	5676	5676
5°	5612	5670	5763
10°	5418	5704	5992
15°	5163	5693	6344
20°	4860	5724	6848
25°	4525	5865	7521
30°	4183	6051	8068
35°	3801	6246	8237
40°	3351	6364	7859
45°	2856	6190	6300
50°	2367	5505	3575
55°	1928	3719	1710
60°	1780	2163	1477
65°	1716	1990	1201
70°	1620	1952	858
75°	1507	1782	834
80°	1374	1750	916
85°	1054	2097	1010



TEST NUMBER: P685844
 CATALOG NUMBER: 8CZL-10-UNV-W-LVR-L835-CD-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.3	4.0
10°-20°	970.4	11.6
20°-30°	1540.0	18.4
30°-40°	1923.4	23.0
40°-50°	1766.5	21.1
50°-60°	942.8	11.3
60°-70°	485.2	5.8
70°-80°	266.8	3.2
80°-90°	110.1	1.3
90°-100°	21.2	0.3
100°-110°	1.2	0.0
110°-120°	0.3	0.0
120°-130°	0.4	0.0
130°-140°	0.7	0.0
140°-150°	0.6	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2844.6	34.0
0°-40°	4768.0	57.0
0°-60°	7477.3	89.4
0°-90°	8339.4	99.7
90°-120°	22.7	0.3
90°-150°	24.3	0.3
90°-180°	25.0	0.3
0°-180°	8364.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3516	3516	3516	3516	3516	
5°	3462	3471	3498	3552	3556	327
15°	3089	3190	3406	3683	3796	869
25°	2540	2779	3292	3895	4222	1170
35°	1928	2284	3169	3860	4179	1197
45°	1251	1803	2711	2810	2759	968
55°	685	1228	1321	740	608	632
65°	449	589	521	425	314	444
75°	242	268	286	254	134	256
85°	57	74	113	149	54	65
90°	0	21	56	90	12	2
95°	0	2	21	42	5	0
105°	0	1	1	1	0	0
115°	0	1	1	0	0	0
125°	0	1	1	0	0	0
135°	1	1	1	1	1	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	1
165°	1	2	1	1	1	0
175°	2	2	1	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P685844

CATALOG NUMBER: 8CZL-10-UNV-W-LVR-L835-CD-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3515.7	3515.7	3515.7	3515.7	3515.7
2.5°	3536.2	3528.6	3503.4	3526.3	3524.5
5°	3462.4	3471.1	3498.1	3552.1	3555.6
7.5°	3429.5	3453.6	3468.8	3585.5	3600.8
10°	3304.6	3342.1	3479.4	3600.8	3654.7
12.5°	3210.8	3286.4	3419.5	3625.4	3719.2
15°	3088.8	3189.7	3406.1	3683.4	3795.5
17.5°	2985.0	3088.2	3365.0	3727.4	3884.0
20°	2828.4	3015.5	3331.6	3773.2	3985.5
22.5°	2716.4	2905.8	3305.8	3813.6	4105.7
25°	2539.9	2778.6	3292.3	3895.1	4221.8
27.5°	2392.1	2671.2	3262.4	3947.3	4298.6
30°	2243.7	2539.9	3245.4	3956.7	4327.4
32.5°	2064.9	2433.1	3202.6	3935.0	4286.3
35°	1928.2	2284.2	3169.1	3860.5	4179.0
37.5°	1761.7	2166.9	3095.8	3725.7	4003.1
40°	1589.8	2058.4	3019.6	3515.1	3728.6
42.5°	1416.3	1936.4	2897.6	3234.2	3299.3
45°	1250.9	1803.3	2711.1	2809.6	2759.2
47.5°	1102.5	1660.2	2490.6	2277.2	2158.7
50°	942.4	1514.8	2191.5	1733.5	1423.3
52.5°	798.1	1393.4	1779.9	1174.1	885.5
55°	685.0	1228.0	1321.3	740.1	607.6
57.5°	604.6	1101.3	953.6	585.3	520.2
60°	551.3	943.0	669.7	537.2	457.4
62.5°	498.5	746.0	573.0	489.7	384.7
65°	449.2	588.8	520.8	424.6	314.3
67.5°	398.2	478.0	470.3	385.3	262.1
70°	343.1	392.9	413.4	322.5	181.8
72.5°	293.8	329.6	351.9	275.6	154.2
75°	241.6	268.0	285.6	253.9	133.7
77.5°	191.8	215.8	232.8	229.9	117.3
80°	147.8	163.6	188.2	205.8	98.5
82.5°	100.9	112.6	148.4	177.7	76.8
85°	56.9	74.5	113.2	149.0	54.5
87.5°	16.4	44.0	82.1	119.6	31.7
90°	0.0	21.1	55.7	90.3	11.7
92.5°	0.0	8.2	36.4	63.3	8.2
95°	0.0	2.3	21.1	41.6	5.3
97.5°	0.0	0.6	10.0	24.6	2.3
100°	0.0	0.6	3.5	11.7	0.6
102.5°	0.0	0.6	1.2	4.1	0.0
105°	0.0	0.6	0.6	0.6	0.0
107.5°	0.0	0.6	0.6	0.0	0.0
110°	0.0	0.6	0.6	0.0	0.0



TEST NUMBER: P685844
 CATALOG NUMBER: 8CZL-10-UNV-W-LVR-L835-CD-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.6	0.6	0.0	0.0
115°	0.0	0.6	0.6	0.0	0.0
117.5°	0.0	0.6	0.6	0.0	0.0
120°	0.0	0.6	0.6	0.0	0.0
122.5°	0.0	0.6	0.6	0.0	0.0
125°	0.0	0.6	0.6	0.0	0.0
127.5°	0.6	0.6	0.6	0.6	0.0
130°	0.6	1.2	1.2	0.6	0.0
132.5°	0.6	1.2	1.2	0.6	0.0
135°	0.6	1.2	1.2	0.6	0.6
137.5°	0.6	1.2	1.2	0.6	0.6
140°	0.6	1.2	1.2	0.6	0.6
142.5°	0.6	1.2	1.2	0.6	0.6
145°	0.6	1.2	1.2	0.6	0.6
147.5°	0.6	1.2	1.2	0.6	0.6
150°	0.6	1.2	1.2	0.6	0.6
152.5°	1.2	1.2	1.2	0.6	0.6
155°	1.2	1.2	1.2	0.6	0.6
157.5°	1.2	1.2	1.2	0.6	0.6
160°	1.2	1.2	1.2	0.6	0.6
162.5°	1.2	1.8	1.2	0.6	0.6
165°	1.2	1.8	1.2	0.6	0.6
167.5°	1.2	1.8	1.2	0.6	0.6
170°	1.2	1.8	1.2	0.6	0.6
172.5°	1.2	1.8	1.2	0.6	0.6
175°	1.8	1.8	1.2	0.6	0.6
177.5°	1.8	1.8	1.2	1.2	1.2
180°	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)