

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: P685364

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685364
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-N-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @80 CRI and 3500K
Light Source: (784) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

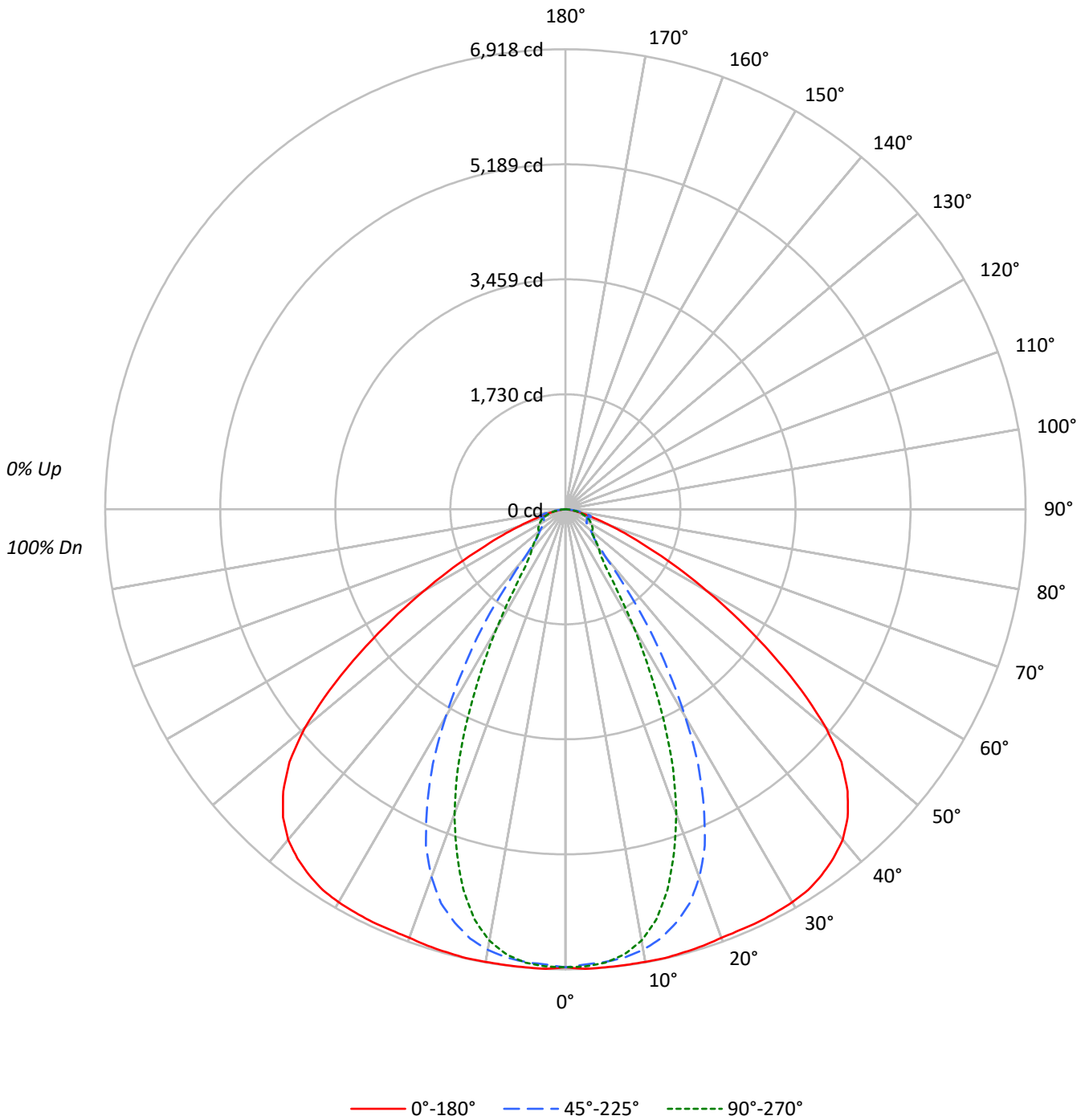
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9723.2 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 0.81 / 0.89
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 (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

TEST NUMBER: P685364
CATALOG NUMBER: 8CZL-10-UNV-N-L835-CD-U

Luminous Intensity Polar Plot





TEST NUMBER: P685364
 CATALOG NUMBER: 8CZL-10-UNV-N-L835-CD-U

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11120	11120	11120
5°	11206	11077	11094
10°	11331	11030	10801
15°	11529	10757	9903
20°	11783	10116	8372
25°	12206	8768	6221
30°	12717	6715	3859
35°	13240	4341	2070
40°	13668	2021	1658
45°	13698	1371	1412
50°	12842	1256	1299
55°	10617	1132	1409
60°	7947	1194	1447
65°	5357	1365	1550
70°	3400	1664	1594
75°	2052	2479	1591
80°	1252	2213	1482
85°	810	1432	1017



TEST NUMBER: P685364
 CATALOG NUMBER: 8CZL-10-UNV-N-L835-CD-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.0	6.7
10°-20°	1800.0	18.5
20°-30°	2298.9	23.6
30°-40°	1864.6	19.2
40°-50°	1319.3	13.6
50°-60°	859.2	8.8
60°-70°	527.7	5.4
70°-80°	313.4	3.2
80°-90°	88.1	0.9
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°	4750.9	48.9
0°-40°	6615.5	68.0
0°-60°	8794.0	90.4
0°-90°	9723.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9723.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6887	6887	6887	6887	6887	
5°	6914	6899	6834	6862	6845	660
15°	6897	6804	6435	6101	5925	1953
25°	6852	6286	4921	3826	3492	3168
35°	6717	4560	2202	1182	1050	4201
45°	5999	2296	600	638	618	4576
55°	3772	773	402	469	501	3371
65°	1402	396	357	429	406	1457
75°	329	225	397	291	255	384
85°	44	87	77	69	55	61
90°	0	0	0	0	0	



TEST NUMBER: P685364

CATALOG NUMBER: 8CZL-10-UNV-N-L835-CD-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6887.0	6887.0	6887.0	6887.0	6887.0
2.5°	6917.7	6904.1	6851.6	6892.9	6881.1
5°	6914.2	6899.4	6834.5	6862.2	6845.1
7.5°	6911.8	6890.0	6797.8	6789.6	6754.2
10°	6911.2	6872.8	6727.6	6647.9	6588.2
12.5°	6912.4	6844.5	6612.4	6436.5	6315.5
15°	6897.0	6803.8	6435.3	6101.1	5924.6
17.5°	6882.9	6710.5	6212.1	5690.8	5425.6
20°	6857.5	6618.4	5887.4	5187.7	4872.4
22.5°	6850.4	6479.0	5477.0	4540.0	4227.6
25°	6851.6	6285.9	4921.4	3826.1	3491.9
27.5°	6838.6	6028.5	4316.2	3135.9	2740.3
30°	6820.9	5663.6	3601.7	2396.0	2070.1
32.5°	6789.6	5151.7	2870.2	1707.6	1437.2
35°	6717.0	4560.0	2202.4	1181.5	1050.4
37.5°	6616.0	3902.3	1485.0	886.9	865.6
40°	6484.9	3305.3	958.9	775.3	786.5
42.5°	6281.8	2789.9	700.3	705.0	706.2
45°	5999.0	2295.7	600.5	638.3	618.2
47.5°	5627.0	1802.6	545.6	556.2	553.3
50°	5112.7	1349.8	500.1	497.7	517.2
52.5°	4476.8	998.5	453.5	473.5	510.1
55°	3771.8	772.9	402.1	469.4	500.7
57.5°	3095.7	626.5	372.6	457.6	475.9
60°	2461.0	522.0	369.6	435.8	448.2
62.5°	1901.2	447.6	367.9	425.1	429.8
65°	1402.3	396.2	357.2	428.7	405.6
67.5°	1021.5	379.7	349.0	422.8	373.8
70°	720.3	333.6	352.5	390.3	337.7
72.5°	488.9	278.7	392.1	344.2	295.8
75°	328.9	225.0	397.4	291.1	255.1
77.5°	213.7	187.2	337.7	238.0	211.4
80°	134.6	155.9	238.0	183.0	159.4
82.5°	87.4	119.9	150.6	129.3	109.8
85°	43.7	87.4	77.3	69.1	54.9
87.5°	26.0	53.1	41.3	30.1	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)