

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: P685568

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685568
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-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

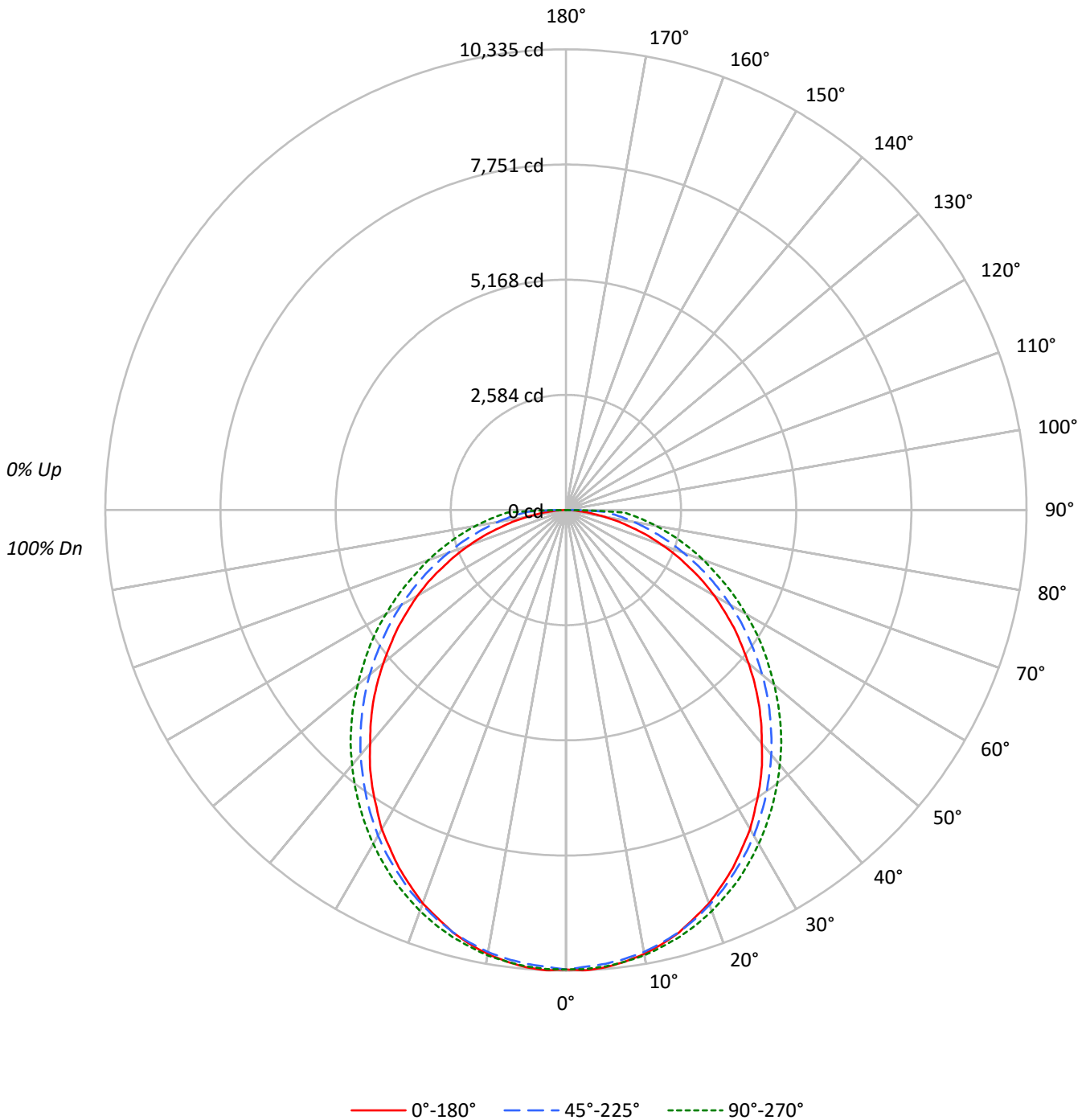
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29028.7 lumens
Efficiency: N/A
Efficacy: 140.9 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): 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

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Luminous Intensity Polar Plot





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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°	16639	16639	16639
5°	16672	16448	16511
10°	16548	16283	16345
15°	16349	16049	16123
20°	16074	15749	15871
25°	15708	15398	15584
30°	15316	15047	15247
35°	14830	14618	14884
40°	14284	14186	14517
45°	13825	13704	14134
50°	13268	13207	13686
55°	12757	12665	13283
60°	12197	12125	12821
65°	11449	11545	12417
70°	10581	10903	12173
75°	9293	10362	12031
80°	7635	10011	12192
85°	5124	10240	13208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	974.8	3.4
10°-20°	2773.8	9.6
20°-30°	4142.9	14.3
30°-40°	4899.7	16.9
40°-50°	4992.5	17.2
50°-60°	4473.7	15.4
60°-70°	3484.5	12.0
70°-80°	2255.9	7.8
80°-90°	1030.9	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°	7891.6	27.2
0°-40°	12791.3	44.1
0°-60°	22257.5	76.7
0°-90°	29028.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29028.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10306	10306	10306	10306	10306	
5°	10296	10278	10218	10278	10276	977
15°	9808	9808	9802	9894	9904	2762
25°	8860	8891	8958	9117	9156	4077
35°	7579	7651	7822	8033	8080	4736
45°	6118	6227	6470	6717	6809	4714
55°	4599	4729	5001	5289	5393	4106
65°	3064	3197	3528	3824	3947	3043
75°	1548	1745	2145	2502	2648	1660
85°	310	598	1046	1424	1528	397
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10305.6	10305.6	10305.6	10305.6	10305.6
2.5°	10335.0	10317.4	10254.7	10309.5	10307.6
5°	10295.8	10278.2	10217.5	10278.2	10276.2
7.5°	10215.5	10209.6	10154.8	10221.4	10215.5
10°	10111.7	10103.9	10068.6	10135.2	10145.0
12.5°	9974.6	9970.6	9943.2	10021.6	10027.5
15°	9808.1	9808.1	9802.2	9894.3	9904.0
17.5°	9594.5	9622.0	9627.8	9727.7	9749.3
20°	9390.8	9398.7	9426.1	9547.5	9573.0
22.5°	9122.5	9155.8	9210.6	9343.8	9365.4
25°	8860.0	8891.3	8957.9	9116.6	9155.8
27.5°	8554.4	8615.1	8707.2	8865.8	8905.0
30°	8264.5	8315.4	8434.9	8611.2	8650.4
32.5°	7909.9	7996.1	8133.2	8319.3	8372.2
35°	7578.9	7651.3	7821.8	8033.3	8080.3
37.5°	7224.3	7310.5	7490.7	7716.0	7780.6
40°	6836.5	6961.8	7171.4	7396.7	7465.3
42.5°	6481.9	6597.5	6818.8	7073.5	7151.8
45°	6117.6	6227.2	6470.1	6717.0	6809.0
47.5°	5737.5	5851.1	6115.6	6378.1	6460.4
50°	5347.7	5482.9	5747.3	6023.5	6098.0
52.5°	4959.9	5095.0	5375.1	5651.3	5735.6
55°	4599.4	4728.7	5001.0	5288.9	5392.8
57.5°	4207.7	4344.8	4644.5	4922.6	5034.3
60°	3845.3	3945.2	4262.5	4550.5	4658.2
62.5°	3471.1	3578.9	3888.4	4184.1	4311.5
65°	3063.7	3196.9	3527.9	3823.7	3947.1
67.5°	2691.5	2818.8	3159.7	3492.7	3592.6
70°	2305.6	2452.5	2805.1	3145.9	3287.0
72.5°	1937.3	2090.1	2478.0	2816.9	2959.9
75°	1547.5	1745.4	2145.0	2501.5	2648.4
77.5°	1226.3	1422.1	1831.5	2203.7	2344.8
80°	869.7	1110.7	1553.4	1929.5	2054.9
82.5°	579.8	824.7	1288.9	1655.2	1790.4
85°	309.5	597.5	1046.0	1424.1	1527.9
87.5°	135.2	417.2	848.2	1185.1	1308.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)