

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: P685306

Luminaire Tested: **8CZL-18-UNV-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685306
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-UNV-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @80 CRI and 3500K
Light Source: (1176) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

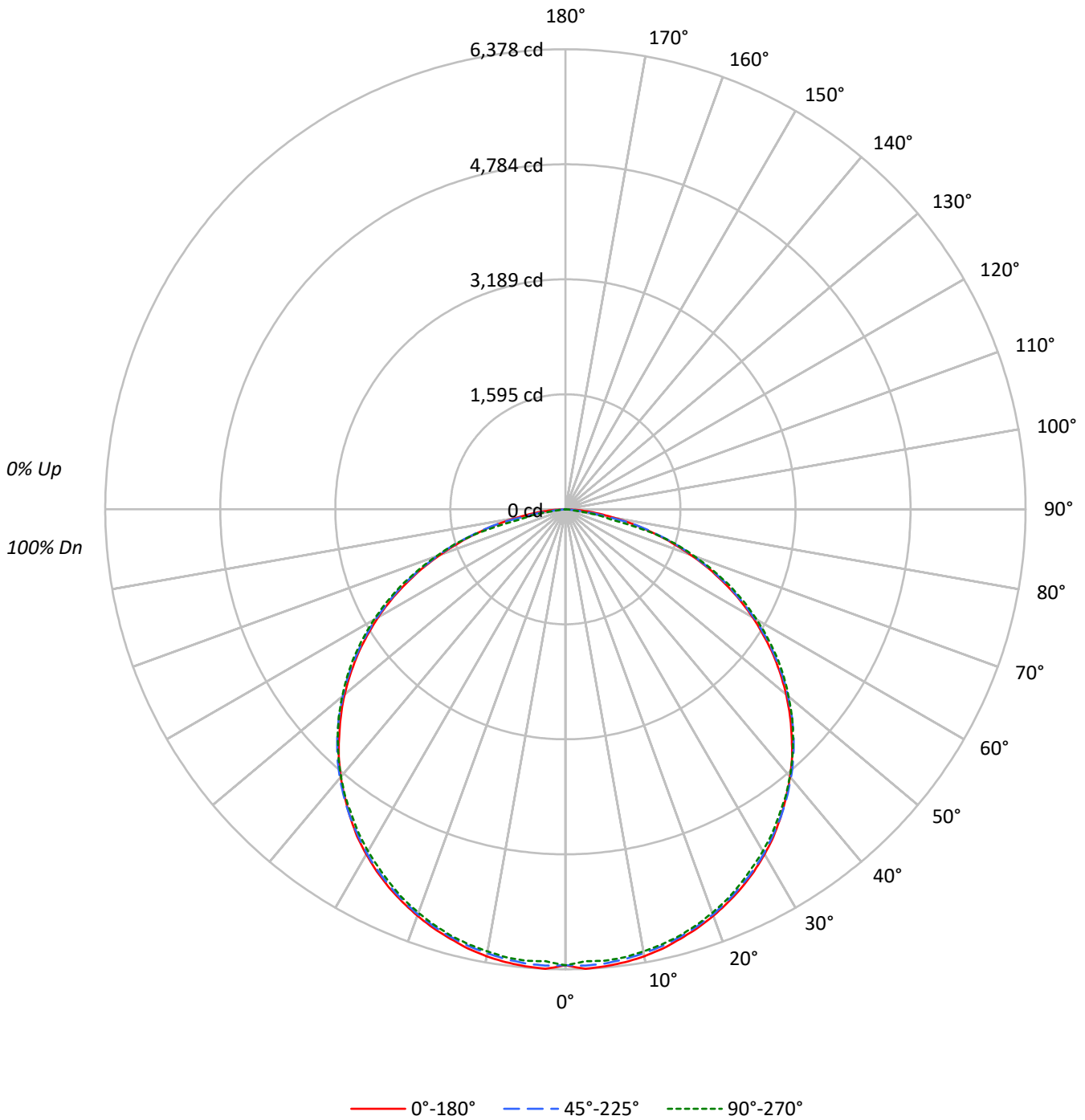
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18752.8 lumens
Efficiency: N/A
Efficacy: 172.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 109
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

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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	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	72	72	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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	42	34	29	55	42	34	29	41	33	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	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10207	10207	10207
5°	10308	10243	10180
10°	10317	10248	10203
15°	10303	10261	10229
20°	10306	10269	10230
25°	10308	10267	10215
30°	10295	10266	10202
35°	10258	10258	10185
40°	10209	10250	10201
45°	10123	10211	10189
50°	10038	10110	10144
55°	9904	9974	10072
60°	9687	9774	9893
65°	9326	9459	9621
70°	8723	8896	8977
75°	7849	7993	7585
80°	6557	5339	4156
85°	4891	1286	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.7	3.2
10°-20°	1729.1	9.2
20°-30°	2647.9	14.1
30°-40°	3241.9	17.3
40°-50°	3429.6	18.3
50°-60°	3162.6	16.9
60°-70°	2439.7	13.0
70°-80°	1303.0	6.9
80°-90°	199.4	1.1
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°	4976.7	26.5
0°-40°	8218.6	43.8
0°-60°	14810.8	79.0
0°-90°	18752.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18752.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6322	6322	6322	6322	6322	
5°	6360	6285	6320	6293	6281	605
15°	6164	6098	6139	6117	6119	1742
25°	5786	5726	5763	5720	5734	2667
35°	5204	5173	5204	5160	5168	3256
45°	4433	4432	4472	4441	4462	3422
55°	3518	3514	3543	3564	3578	3139
65°	2441	2441	2476	2495	2518	2410
75°	1258	1256	1281	1291	1216	1332
85°	264	189	69	29	25	324
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6321.6	6321.6	6321.6	6321.6	6321.6
2.5°	6377.5	6302.4	6333.2	6310.1	6271.5
5°	6360.2	6285.0	6319.7	6292.7	6281.2
7.5°	6333.2	6256.1	6290.8	6269.6	6265.8
10°	6292.7	6213.7	6250.4	6227.2	6223.4
12.5°	6238.8	6161.7	6202.2	6175.2	6179.1
15°	6163.6	6098.1	6138.6	6117.4	6119.3
17.5°	6088.5	6021.1	6063.5	6042.3	6044.2
20°	5997.9	5932.4	5976.8	5944.0	5953.6
22.5°	5895.8	5838.0	5876.6	5834.2	5853.4
25°	5786.0	5726.3	5762.9	5720.5	5734.0
27.5°	5660.8	5604.9	5641.5	5597.2	5603.0
30°	5522.0	5471.9	5506.6	5462.3	5471.9
32.5°	5373.7	5329.4	5356.3	5315.9	5329.4
35°	5204.1	5173.3	5204.1	5159.8	5167.5
37.5°	5026.9	4996.0	5038.4	4999.9	5013.4
40°	4843.8	4814.9	4863.1	4824.6	4840.0
42.5°	4649.2	4628.0	4676.2	4637.7	4656.9
45°	4433.4	4431.5	4472.0	4441.1	4462.3
47.5°	4219.6	4215.7	4256.2	4235.0	4260.0
50°	3996.1	3992.2	4025.0	4023.0	4038.5
52.5°	3757.1	3762.9	3793.8	3799.5	3816.9
55°	3518.2	3514.4	3543.3	3564.5	3578.0
57.5°	3258.1	3265.8	3288.9	3314.0	3323.6
60°	2999.9	2996.1	3026.9	3048.1	3063.5
62.5°	2726.3	2726.3	2751.4	2782.2	2797.6
65°	2441.2	2441.2	2475.9	2495.1	2518.3
67.5°	2150.2	2144.5	2175.3	2217.7	2213.8
70°	1847.7	1849.7	1884.4	1905.5	1901.7
72.5°	1547.2	1553.0	1589.6	1599.2	1608.8
75°	1258.2	1256.2	1281.3	1290.9	1215.8
77.5°	971.1	973.0	988.4	724.5	635.8
80°	705.2	709.0	574.2	447.0	447.0
82.5°	466.3	458.6	294.8	173.4	127.2
85°	264.0	188.8	69.4	28.9	25.0
87.5°	107.9	34.7	19.3	13.5	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)