

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: P685377

Luminaire Tested: **8CZL-24-UNV-N-L840-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685377
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-UNV-N-L840-CD-U
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @80 CRI and 4000K
Light Source: (1176) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

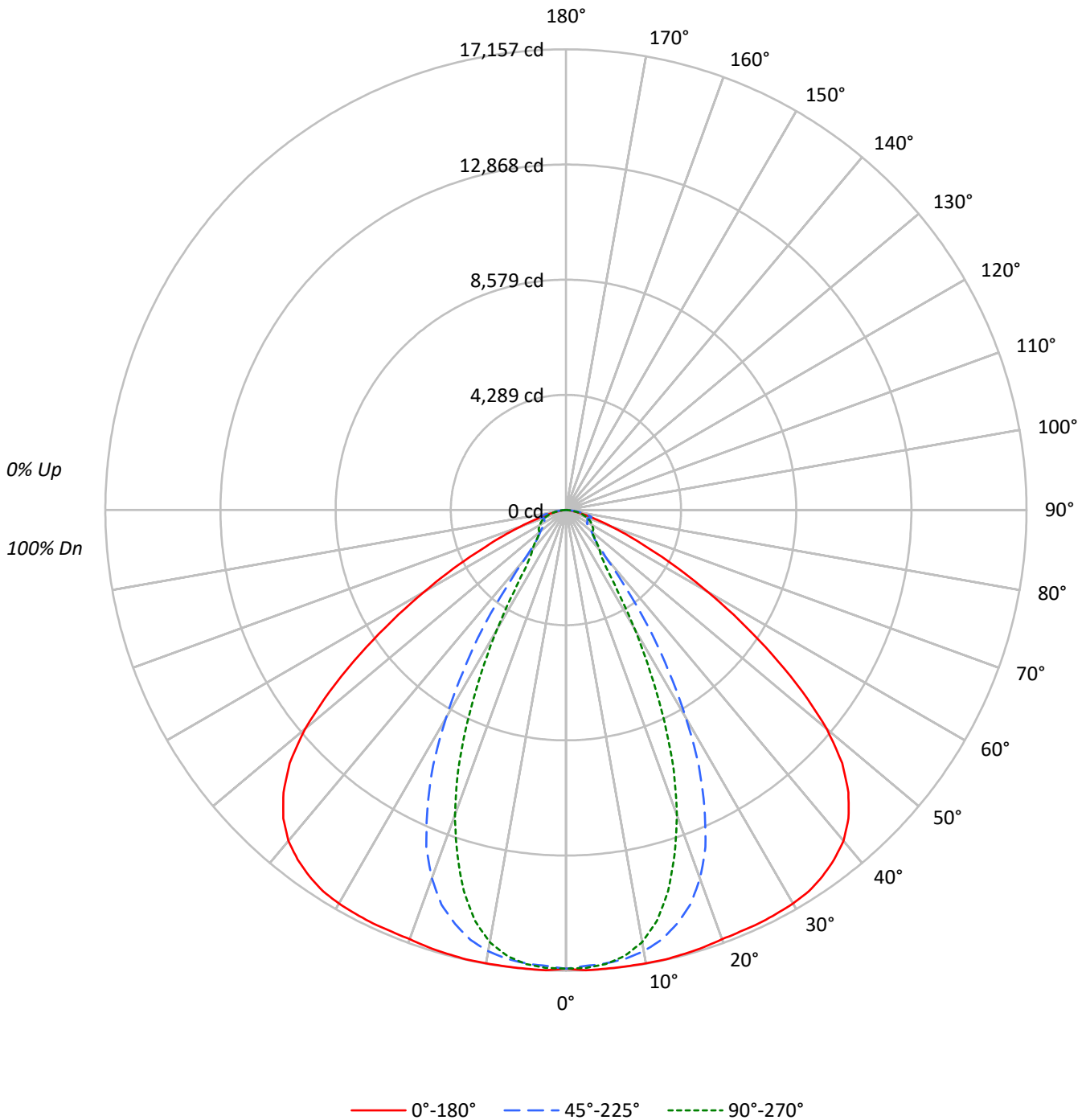
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24115.0 lumens
Efficiency: N/A
Efficacy: 156.6 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): 154
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79	79	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70	70	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63	63	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27579	27579	27579
5°	27793	27473	27516
10°	28103	27356	26789
15°	28593	26679	24562
20°	29223	25089	20763
25°	30273	21745	15429
30°	31539	16654	9572
35°	32836	10766	5135
40°	33899	5013	4111
45°	33973	3401	3501
50°	31851	3116	3222
55°	26333	2807	3496
60°	19710	2960	3589
65°	13288	3385	3844
70°	8434	4127	3954
75°	5089	6148	3946
80°	3105	5488	3676
85°	2008	3553	2523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1617.0	6.7
10°-20°	4464.4	18.5
20°-30°	5701.7	23.6
30°-40°	4624.4	19.2
40°-50°	3272.1	13.6
50°-60°	2131.0	8.8
60°-70°	1308.7	5.4
70°-80°	777.3	3.2
80°-90°	218.4	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°	11783.1	48.9
0°-40°	16407.5	68.0
0°-60°	21810.6	90.4
0°-90°	24115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17081	17081	17081	17081	17081	
5°	17148	17112	16951	17019	16977	1636
15°	17106	16874	15961	15132	14694	4845
25°	16993	15590	12206	9489	8660	7857
35°	16659	11310	5462	2930	2605	10419
45°	14878	5694	1489	1583	1533	11348
55°	9355	1917	997	1164	1242	8360
65°	3478	983	886	1063	1006	3613
75°	816	558	986	722	633	951
85°	108	217	192	171	136	151
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17080.9	17080.9	17080.9	17080.9	17080.9
2.5°	17157.0	17123.4	16993.0	17095.5	17066.2
5°	17148.3	17111.6	16950.6	17019.4	16976.9
7.5°	17142.4	17088.2	16859.8	16839.3	16751.4
10°	17140.9	17045.7	16685.5	16487.8	16339.9
12.5°	17143.9	16975.5	16399.9	15963.5	15663.3
15°	17105.8	16874.4	15960.6	15131.8	14693.9
17.5°	17070.6	16643.0	15407.1	14114.0	13456.5
20°	17007.7	16414.6	14601.6	12866.3	12084.3
22.5°	16990.1	16069.0	13583.9	11259.9	10485.2
25°	16993.0	15590.1	12205.9	9489.4	8660.5
27.5°	16960.8	14951.6	10704.8	7777.5	6796.3
30°	16916.9	14046.6	8932.9	5942.6	5134.2
32.5°	16839.3	12777.0	7118.5	4235.1	3564.4
35°	16659.1	11309.6	5462.3	2930.3	2605.2
37.5°	16408.7	9678.3	3683.0	2199.5	2146.8
40°	16083.6	8197.8	2378.2	1922.8	1950.6
42.5°	15579.9	6919.3	1736.8	1748.5	1751.4
45°	14878.4	5693.6	1489.3	1583.0	1533.2
47.5°	13955.8	4470.8	1353.1	1379.5	1372.2
50°	12680.3	3347.6	1240.4	1234.5	1282.8
52.5°	11103.2	2476.3	1124.7	1174.5	1265.3
55°	9354.7	1916.9	997.3	1164.2	1241.8
57.5°	7677.9	1553.7	924.0	1134.9	1180.3
60°	6103.7	1294.5	916.7	1080.7	1111.5
62.5°	4715.4	1110.0	912.3	1054.4	1066.1
65°	3478.0	982.6	886.0	1063.2	1006.1
67.5°	2533.4	941.6	865.5	1048.5	927.0
70°	1786.6	827.4	874.3	968.0	837.6
72.5°	1212.5	691.2	972.4	853.8	733.7
75°	815.7	557.9	985.5	722.0	632.6
77.5°	530.1	464.2	837.6	590.2	524.3
80°	333.9	386.6	590.2	454.0	395.4
82.5°	216.7	297.3	373.4	320.7	272.4
85°	108.4	216.7	191.8	171.3	136.2
87.5°	64.4	131.8	102.5	74.7	68.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)