

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: P685557

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685557
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-UNV-FL-L840-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @80 CRI and 4000K
Light Source: (1176) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

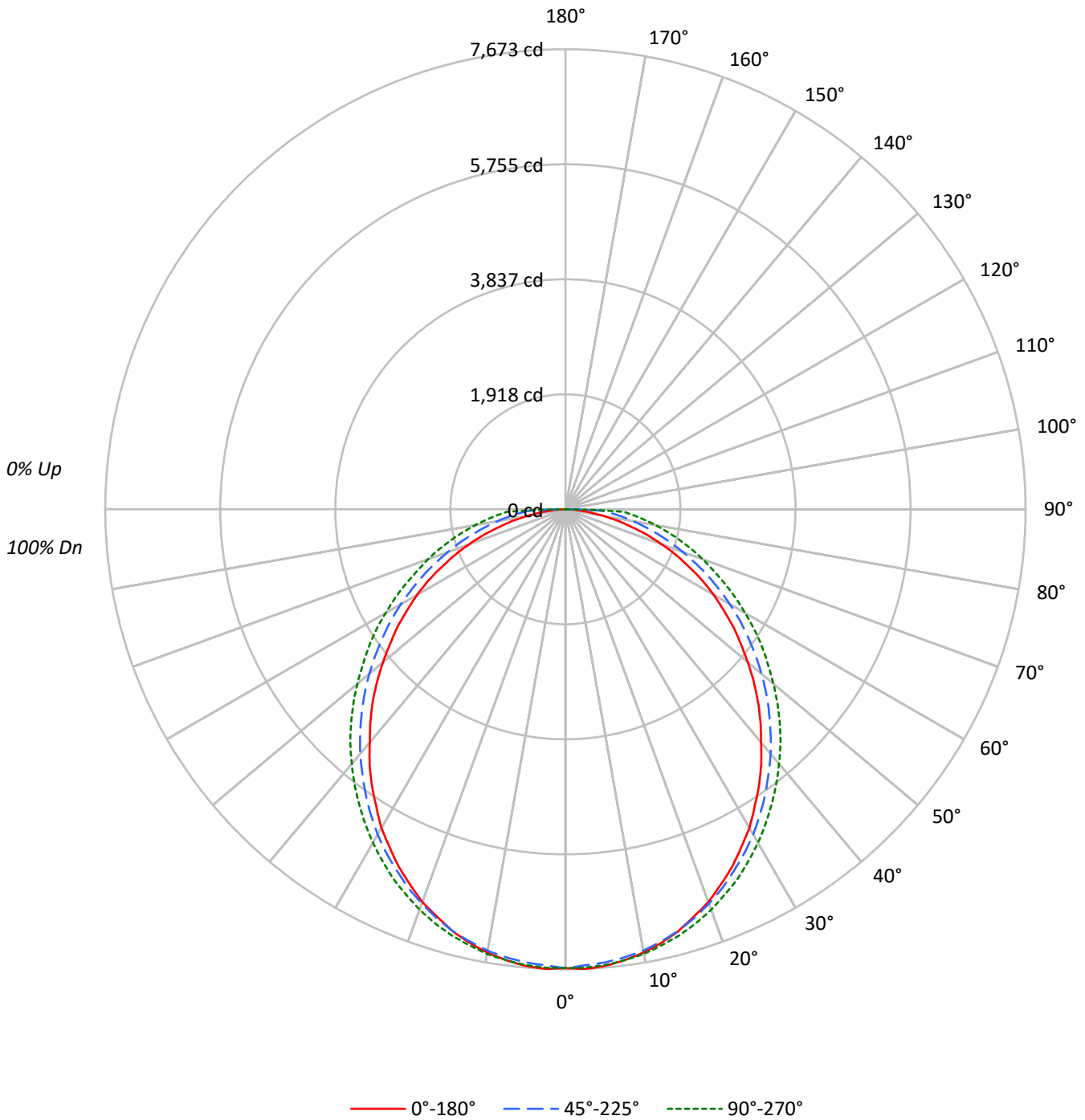
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21551.7 lumens
Efficiency: N/A
Efficacy: 139.9 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): 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				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°	12354	12354	12354
5°	12378	12211	12258
10°	12285	12089	12135
15°	12138	11915	11970
20°	11934	11692	11783
25°	11662	11432	11570
30°	11371	11172	11320
35°	11010	10853	11051
40°	10605	10532	10777
45°	10264	10174	10494
50°	9851	9806	10161
55°	9471	9403	9862
60°	9055	9002	9519
65°	8500	8571	9219
70°	7856	8095	9037
75°	6899	7693	8932
80°	5669	7432	9052
85°	3804	7602	9806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.7	3.4
10°-20°	2059.4	9.6
20°-30°	3075.8	14.3
30°-40°	3637.7	16.9
40°-50°	3706.6	17.2
50°-60°	3321.4	15.4
60°-70°	2586.9	12.0
70°-80°	1674.8	7.8
80°-90°	765.4	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°	5858.9	27.2
0°-40°	9496.6	44.1
0°-60°	16524.5	76.7
0°-90°	21551.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21551.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7651	7651	7651	7651	7651	
5°	7644	7631	7586	7631	7629	725
15°	7282	7282	7277	7346	7353	2051
25°	6578	6601	6651	6768	6798	3027
35°	5627	5681	5807	5964	5999	3516
45°	4542	4623	4804	4987	5055	3500
55°	3415	3511	3713	3927	4004	3048
65°	2274	2373	2619	2839	2930	2259
75°	1149	1296	1592	1857	1966	1233
85°	230	444	777	1057	1134	295
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7651.2	7651.2	7651.2	7651.2	7651.2
2.5°	7673.0	7659.9	7613.3	7654.1	7652.6
5°	7643.9	7630.8	7585.7	7630.8	7629.3
7.5°	7584.3	7579.9	7539.2	7588.6	7584.3
10°	7507.2	7501.4	7475.2	7524.6	7531.9
12.5°	7405.4	7402.5	7382.1	7440.3	7444.6
15°	7281.8	7281.8	7277.4	7345.7	7353.0
17.5°	7123.2	7143.6	7148.0	7222.1	7238.1
20°	6972.0	6977.8	6998.2	7088.3	7107.2
22.5°	6772.7	6797.5	6838.2	6937.1	6953.1
25°	6577.9	6601.1	6650.6	6768.4	6797.5
27.5°	6351.0	6396.1	6464.4	6582.2	6611.3
30°	6135.8	6173.6	6262.3	6393.2	6422.3
32.5°	5872.5	5936.5	6038.3	6176.5	6215.7
35°	5626.7	5680.6	5807.1	5964.1	5999.0
37.5°	5363.5	5427.5	5561.3	5728.5	5776.5
40°	5075.6	5168.6	5324.2	5491.5	5542.4
42.5°	4812.3	4898.1	5062.5	5251.5	5309.7
45°	4541.8	4623.3	4803.6	4986.8	5055.2
47.5°	4259.7	4344.0	4540.4	4735.2	4796.3
50°	3970.3	4070.6	4267.0	4472.0	4527.3
52.5°	3682.3	3782.7	3990.6	4195.7	4258.2
55°	3414.7	3510.7	3712.9	3926.7	4003.7
57.5°	3123.9	3225.7	3448.2	3654.7	3737.6
60°	2854.8	2929.0	3164.6	3378.4	3458.4
62.5°	2577.0	2657.0	2886.8	3106.4	3200.9
65°	2274.5	2373.4	2619.2	2838.8	2930.4
67.5°	1998.2	2092.8	2345.8	2593.0	2667.2
70°	1711.7	1820.8	2082.6	2335.6	2440.3
72.5°	1438.3	1551.8	1839.7	2091.3	2197.5
75°	1148.9	1295.8	1592.5	1857.2	1966.2
77.5°	910.4	1055.8	1359.8	1636.1	1740.8
80°	645.7	824.6	1153.3	1432.5	1525.6
82.5°	430.5	612.3	956.9	1228.9	1329.2
85°	229.8	443.6	776.6	1057.3	1134.4
87.5°	100.3	309.8	629.7	879.9	971.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)