

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: P685554

Luminaire Tested: **8CZL-10-UNV-FL-L840-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685554
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-FL-L840-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @80 CRI and 4000K
Light Source: (784) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

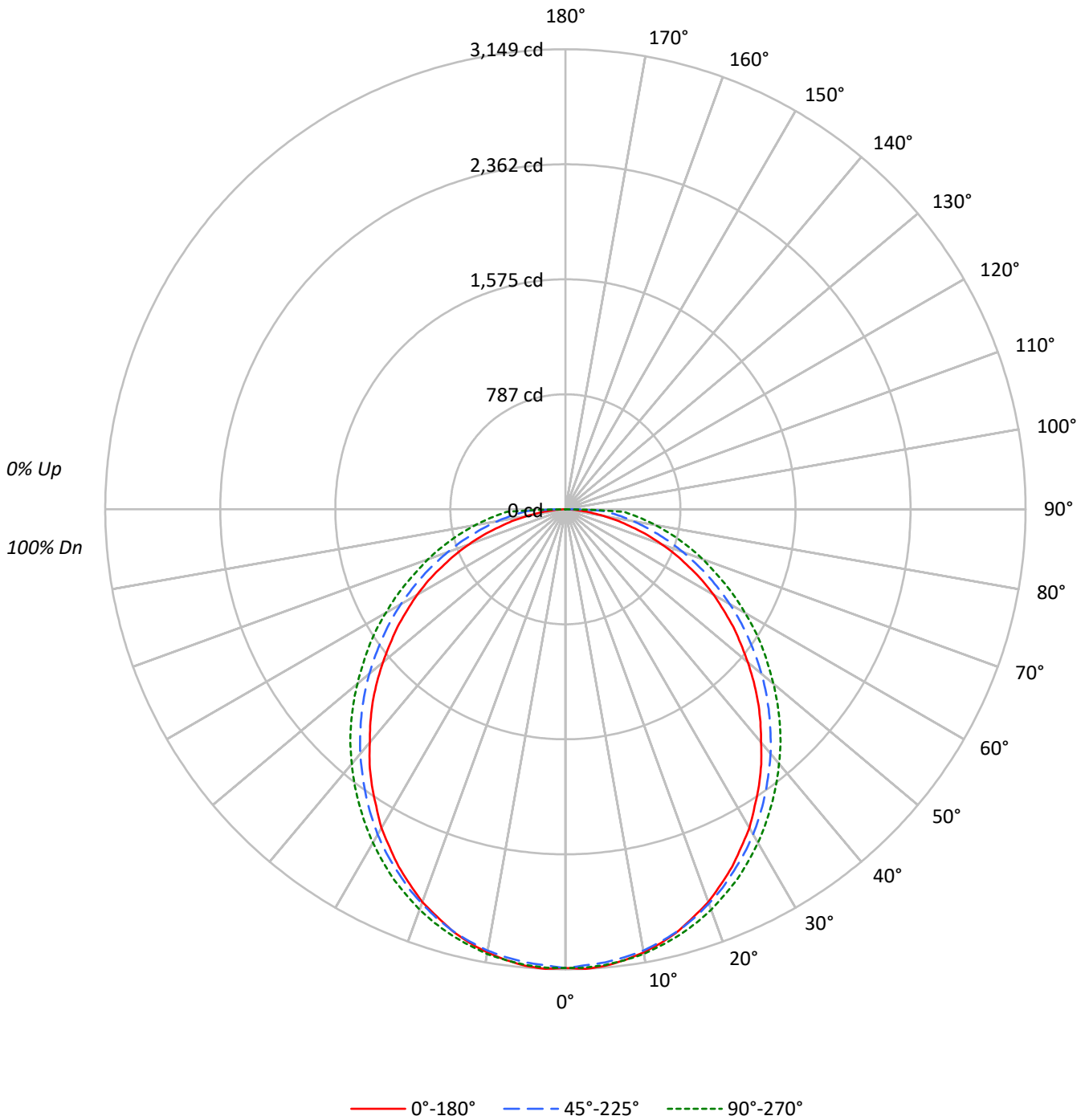
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8844.4 lumens
Efficiency: N/A
Efficacy: 140.4 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): 63
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

TEST NUMBER: P685554
CATALOG NUMBER: 8CZL-10-UNV-FL-L840-CD-U

Luminous Intensity Polar Plot





TEST NUMBER: P685554
 CATALOG NUMBER: 8CZL-10-UNV-FL-L840-CD-U

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°	5070	5070	5070
5°	5080	5011	5030
10°	5042	4961	4980
15°	4981	4890	4912
20°	4898	4798	4836
25°	4786	4691	4748
30°	4666	4585	4646
35°	4518	4454	4535
40°	4352	4322	4423
45°	4212	4175	4306
50°	4042	4024	4170
55°	3887	3859	4047
60°	3716	3694	3906
65°	3488	3518	3783
70°	3224	3322	3709
75°	2831	3157	3666
80°	2327	3050	3715
85°	1561	3120	4024



TEST NUMBER: P685554
 CATALOG NUMBER: 8CZL-10-UNV-FL-L840-CD-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	3.4
10°-20°	845.1	9.6
20°-30°	1262.2	14.3
30°-40°	1492.8	16.9
40°-50°	1521.1	17.2
50°-60°	1363.0	15.4
60°-70°	1061.6	12.0
70°-80°	687.3	7.8
80°-90°	314.1	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°	2404.4	27.2
0°-40°	3897.2	44.1
0°-60°	6781.3	76.7
0°-90°	8844.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8844.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3140	3140	3140	3140	3140	
5°	3137	3132	3113	3132	3131	298
15°	2988	2988	2986	3015	3018	842
25°	2699	2709	2729	2778	2790	1242
35°	2309	2331	2383	2448	2462	1443
45°	1864	1897	1971	2046	2075	1436
55°	1401	1441	1524	1611	1643	1251
65°	933	974	1075	1165	1203	927
75°	472	532	654	762	807	506
85°	94	182	319	434	466	121
90°	0	0	0	0	0	



TEST NUMBER: P685554

CATALOG NUMBER: 8CZL-10-UNV-FL-L840-CD-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3139.9	3139.9	3139.9	3139.9	3139.9
2.5°	3148.8	3143.5	3124.4	3141.1	3140.5
5°	3136.9	3131.5	3113.0	3131.5	3130.9
7.5°	3112.4	3110.6	3093.9	3114.2	3112.4
10°	3080.8	3078.4	3067.7	3088.0	3090.9
12.5°	3039.0	3037.8	3029.5	3053.3	3055.1
15°	2988.3	2988.3	2986.5	3014.6	3017.5
17.5°	2923.2	2931.6	2933.4	2963.8	2970.4
20°	2861.2	2863.6	2871.9	2908.9	2916.7
22.5°	2779.4	2789.6	2806.3	2846.8	2853.4
25°	2699.4	2709.0	2729.3	2777.6	2789.6
27.5°	2606.3	2624.8	2652.9	2701.2	2713.2
30°	2518.0	2533.5	2569.9	2623.6	2635.6
32.5°	2410.0	2436.2	2478.0	2534.7	2550.8
35°	2309.1	2331.2	2383.1	2447.6	2461.9
37.5°	2201.1	2227.3	2282.3	2350.9	2370.6
40°	2082.9	2121.1	2185.0	2253.6	2274.5
42.5°	1974.9	2010.1	2077.5	2155.1	2179.0
45°	1863.9	1897.3	1971.3	2046.5	2074.6
47.5°	1748.1	1782.7	1863.3	1943.3	1968.3
50°	1629.3	1670.5	1751.1	1835.2	1857.9
52.5°	1511.2	1552.3	1637.7	1721.8	1747.5
55°	1401.3	1440.7	1523.7	1611.4	1643.1
57.5°	1282.0	1323.8	1415.1	1499.8	1533.8
60°	1171.6	1202.0	1298.7	1386.4	1419.2
62.5°	1057.6	1090.4	1184.7	1274.8	1313.6
65°	933.4	974.0	1074.9	1165.0	1202.6
67.5°	820.0	858.8	962.7	1064.1	1094.6
70°	702.5	747.2	854.7	958.5	1001.5
72.5°	590.3	636.8	755.0	858.2	901.8
75°	471.5	531.8	653.5	762.1	806.9
77.5°	373.6	433.3	558.0	671.4	714.4
80°	265.0	338.4	473.3	587.9	626.1
82.5°	176.7	251.3	392.7	504.3	545.5
85°	94.3	182.0	318.7	433.9	465.5
87.5°	41.2	127.1	258.4	361.1	398.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)