

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: P685586

Luminaire Tested: **8CZL-18-UNV-FL-L940-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685586
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-UNV-FL-L940-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @90 CRI and 4000K
Light Source: (1176) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

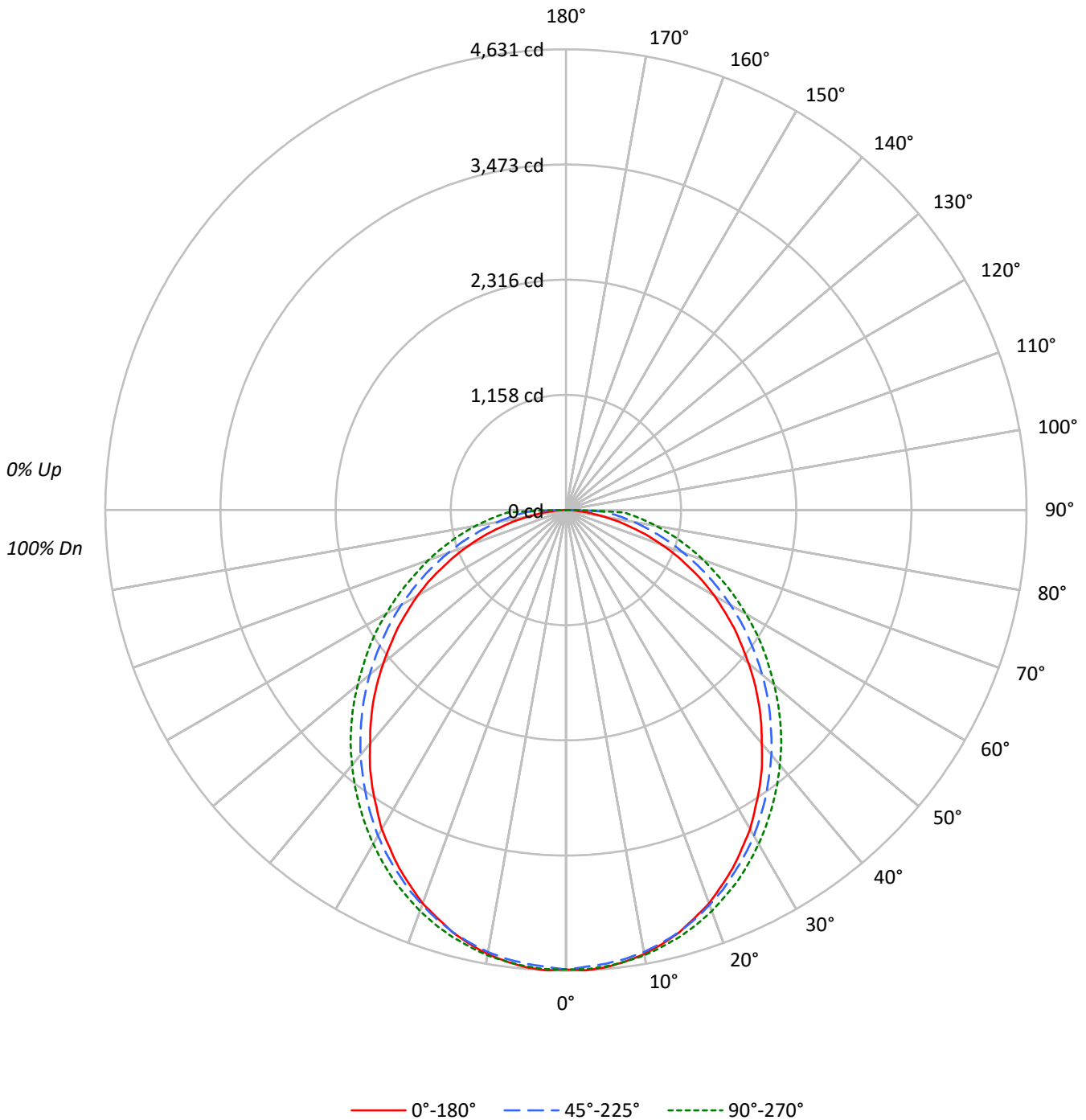
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13008.2 lumens
Efficiency: N/A
Efficacy: 119.3 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): 109
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°	7456	7456	7456
5°	7471	7370	7399
10°	7415	7297	7324
15°	7326	7192	7225
20°	7203	7057	7112
25°	7039	6900	6984
30°	6863	6743	6832
35°	6646	6550	6670
40°	6401	6357	6505
45°	6195	6141	6334
50°	5946	5919	6133
55°	5717	5675	5953
60°	5466	5433	5745
65°	5130	5174	5564
70°	4742	4886	5455
75°	4164	4643	5391
80°	3421	4486	5463
85°	2296	4588	5919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.8	3.4
10°-20°	1243.0	9.6
20°-30°	1856.5	14.3
30°-40°	2195.6	16.9
40°-50°	2237.2	17.2
50°-60°	2004.7	15.4
60°-70°	1561.4	12.0
70°-80°	1010.9	7.8
80°-90°	462.0	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°	3536.3	27.2
0°-40°	5731.9	44.1
0°-60°	9973.9	76.7
0°-90°	13008.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13008.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4618	4618	4618	4618	4618	
5°	4614	4606	4579	4606	4605	438
15°	4395	4395	4392	4434	4438	1238
25°	3970	3984	4014	4085	4103	1827
35°	3396	3429	3505	3600	3621	2122
45°	2741	2790	2899	3010	3051	2112
55°	2061	2119	2241	2370	2417	1840
65°	1373	1433	1581	1714	1769	1364
75°	694	782	961	1121	1187	744
85°	139	268	469	638	685	178
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4618.1	4618.1	4618.1	4618.1	4618.1
2.5°	4631.3	4623.4	4595.3	4619.8	4619.0
5°	4613.7	4605.8	4578.6	4605.8	4604.9
7.5°	4577.7	4575.1	4550.5	4580.3	4577.7
10°	4531.2	4527.7	4511.9	4541.7	4546.1
12.5°	4469.7	4468.0	4455.7	4490.8	4493.4
15°	4395.1	4395.1	4392.5	4433.7	4438.1
17.5°	4299.4	4311.7	4314.4	4359.1	4368.8
20°	4208.2	4211.7	4224.0	4278.4	4289.8
22.5°	4087.9	4102.8	4127.4	4187.1	4196.7
25°	3970.3	3984.3	4014.2	4085.3	4102.8
27.5°	3833.3	3860.5	3901.8	3972.9	3990.5
30°	3703.4	3726.2	3779.8	3858.8	3876.3
32.5°	3544.5	3583.2	3644.6	3728.0	3751.7
35°	3396.2	3428.7	3505.0	3599.8	3620.9
37.5°	3237.3	3275.9	3356.7	3457.6	3486.6
40°	3063.5	3119.7	3213.6	3314.6	3345.3
42.5°	2904.6	2956.4	3055.6	3169.7	3204.8
45°	2741.4	2790.5	2899.4	3010.0	3051.2
47.5°	2571.1	2622.0	2740.5	2858.1	2895.0
50°	2396.4	2457.0	2575.5	2699.2	2732.6
52.5°	2222.6	2283.1	2408.7	2532.4	2570.2
55°	2061.1	2119.0	2241.0	2370.1	2416.6
57.5°	1885.5	1947.0	2081.3	2205.9	2255.9
60°	1723.1	1767.9	1910.1	2039.1	2087.4
62.5°	1555.5	1603.7	1742.4	1875.0	1932.0
65°	1372.9	1432.6	1580.9	1713.5	1768.8
67.5°	1206.1	1263.1	1415.9	1565.1	1609.9
70°	1033.2	1099.0	1257.0	1409.7	1472.9
72.5°	868.1	936.6	1110.4	1262.3	1326.4
75°	693.5	782.1	961.2	1120.9	1186.8
77.5°	549.5	637.3	820.7	987.5	1050.7
80°	389.7	497.7	696.1	864.6	920.8
82.5°	259.8	369.6	577.6	741.7	802.3
85°	138.7	267.7	468.7	638.2	684.7
87.5°	60.6	187.0	380.1	531.1	586.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)