

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: P685404

Luminaire Tested: **8CZL-10-UNV-N-L940-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685404
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-N-L940-CD-U
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @90 CRI and 4000K
Light Source: (784) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

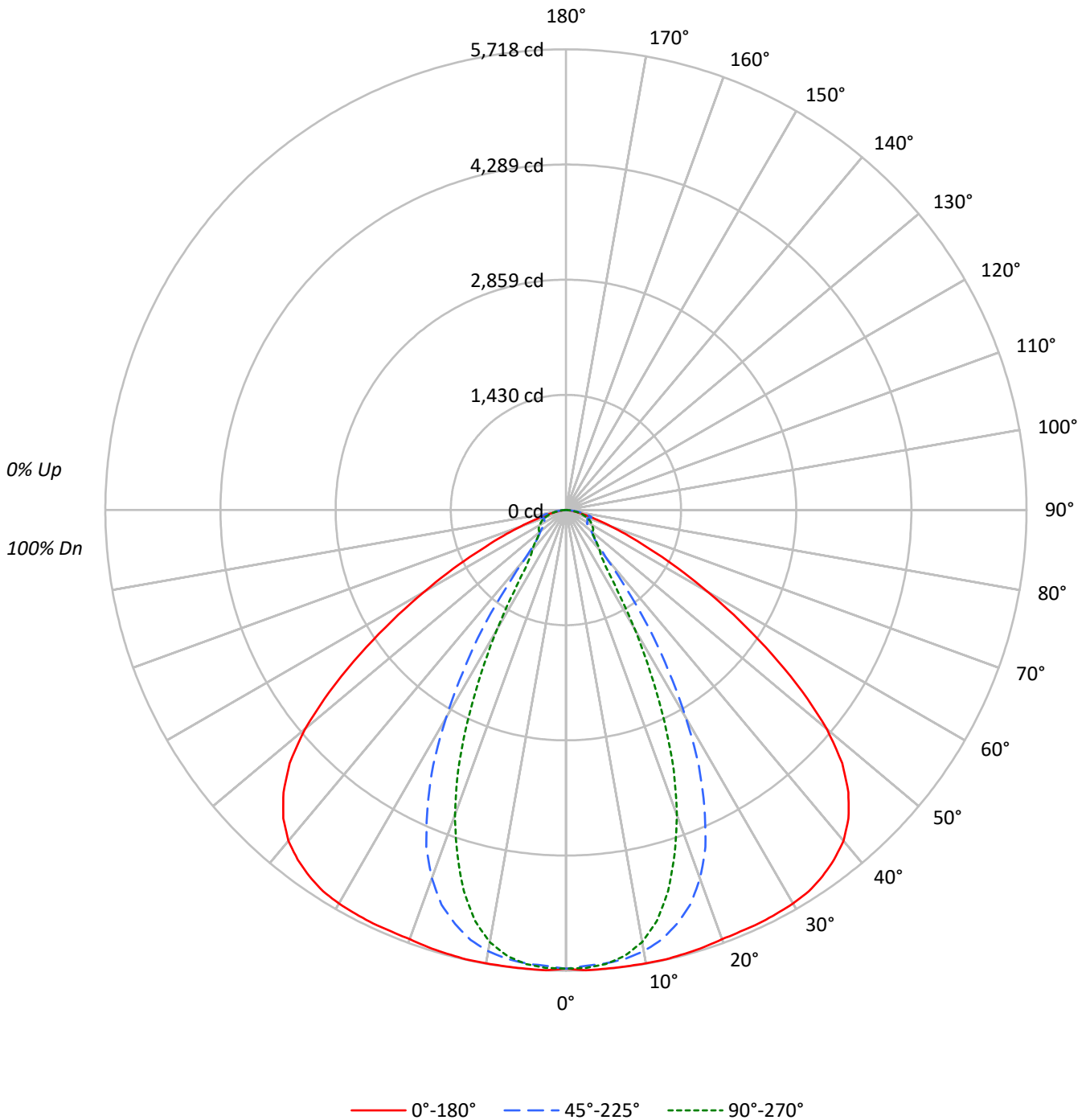
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8036.8 lumens
Efficiency: N/A
Efficacy: 127.6 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): 63
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		
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79		
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63		
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57		
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9191	9191	9191
5°	9263	9156	9170
10°	9366	9117	8928
15°	9529	8891	8186
20°	9739	8361	6920
25°	10089	7247	5142
30°	10511	5550	3190
35°	10943	3588	1711
40°	11298	1671	1370
45°	11322	1133	1167
50°	10615	1038	1074
55°	8776	936	1165
60°	6569	987	1196
65°	4428	1128	1281
70°	2811	1376	1318
75°	1696	2049	1315
80°	1035	1829	1225
85°	669	1184	841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.9	6.7
10°-20°	1487.8	18.5
20°-30°	1900.2	23.6
30°-40°	1541.2	19.2
40°-50°	1090.5	13.6
50°-60°	710.2	8.8
60°-70°	436.1	5.4
70°-80°	259.1	3.2
80°-90°	72.8	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°	3926.9	48.9
0°-40°	5468.1	68.0
0°-60°	7268.8	90.4
0°-90°	8036.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8036.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5693	5693	5693	5693	5693	
5°	5715	5703	5649	5672	5658	545
15°	5701	5624	5319	5043	4897	1615
25°	5663	5196	4068	3162	2886	2618
35°	5552	3769	1820	977	868	3472
45°	4958	1898	496	528	511	3782
55°	3118	639	332	388	414	2786
65°	1159	328	295	354	335	1204
75°	272	186	328	241	211	317
85°	36	72	64	57	45	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5692.6	5692.6	5692.6	5692.6	5692.6
2.5°	5717.9	5706.7	5663.3	5697.4	5687.7
5°	5715.0	5702.8	5649.1	5672.1	5657.9
7.5°	5713.1	5695.0	5618.9	5612.0	5582.7
10°	5712.6	5680.8	5560.8	5494.9	5445.6
12.5°	5713.5	5657.4	5465.6	5320.2	5220.1
15°	5700.9	5623.7	5319.2	5043.0	4897.0
17.5°	5689.1	5546.6	5134.7	4703.8	4484.6
20°	5668.2	5470.5	4866.3	4288.0	4027.3
22.5°	5662.3	5355.3	4527.1	3752.6	3494.4
25°	5663.3	5195.7	4067.9	3162.5	2886.3
27.5°	5652.5	4982.9	3567.6	2592.0	2265.0
30°	5637.9	4681.3	2977.1	1980.5	1711.1
32.5°	5612.0	4258.2	2372.4	1411.4	1187.9
35°	5552.0	3769.2	1820.4	976.6	868.2
37.5°	5468.5	3225.5	1227.4	733.0	715.5
40°	5360.2	2732.1	792.6	640.8	650.1
42.5°	5192.3	2306.0	578.8	582.7	583.7
45°	4958.5	1897.5	496.3	527.6	511.0
47.5°	4651.1	1490.0	451.0	459.7	457.3
50°	4226.0	1115.7	413.4	411.4	427.5
52.5°	3700.4	825.3	374.8	391.4	421.7
55°	3117.6	638.9	332.4	388.0	413.9
57.5°	2558.8	517.8	308.0	378.2	393.4
60°	2034.2	431.4	305.5	360.2	370.4
62.5°	1571.5	369.9	304.1	351.4	355.3
65°	1159.1	327.5	295.3	354.3	335.3
67.5°	844.3	313.8	288.4	349.4	308.9
70°	595.4	275.7	291.4	322.6	279.2
72.5°	404.1	230.4	324.1	284.5	244.5
75°	271.8	185.9	328.5	240.6	210.8
77.5°	176.7	154.7	279.2	196.7	174.7
80°	111.3	128.8	196.7	151.3	131.8
82.5°	72.2	99.1	124.5	106.9	90.8
85°	36.1	72.2	63.9	57.1	45.4
87.5°	21.5	43.9	34.2	24.9	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)