

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: P685408

Luminaire Tested: **8CZL-32-UNV-N-L940-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685408  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-32-UNV-N-L940-CD-U  
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @90 CRI and 4000K  
Light Source: (1176) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

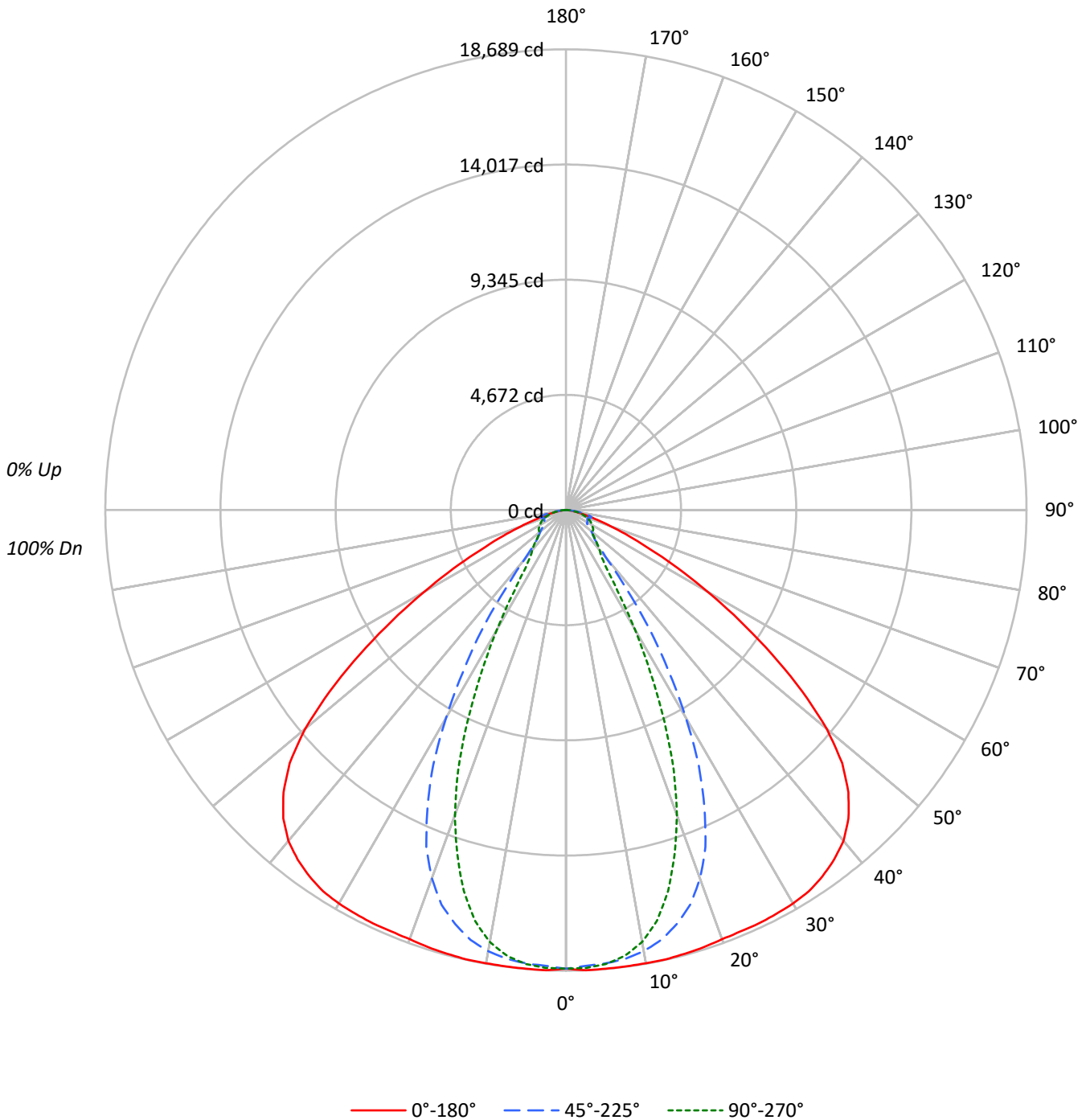
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26267.8 lumens  
Efficiency: N/A  
Efficacy: 127.5 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): 206  
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	0
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°	30041	30041	30041
5°	30274	29925	29972
10°	30611	29798	29181
15°	31146	29061	26754
20°	31832	27329	22617
25°	32976	23686	16806
30°	34355	18141	10427
35°	35767	11728	5593
40°	36926	5460	4478
45°	37006	3704	3813
50°	34695	3394	3510
55°	28684	3058	3808
60°	21470	3225	3910
65°	14474	3687	4187
70°	9187	4496	4307
75°	5543	6697	4299
80°	3382	5977	4005
85°	2186	3872	2747



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1761.4	6.7
10°-20°	4862.9	18.5
20°-30°	6210.7	23.6
30°-40°	5037.2	19.2
40°-50°	3564.2	13.6
50°-60°	2321.3	8.8
60°-70°	1425.5	5.4
70°-80°	846.7	3.2
80°-90°	237.9	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°	12835.0	48.9
0°-40°	17872.2	68.0
0°-60°	23757.6	90.4
0°-90°	26267.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26267.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18606	18606	18606	18606	18606	
5°	18679	18639	18464	18539	18492	1783
15°	18633	18381	17386	16483	16006	5277
25°	18510	16982	13296	10336	9434	8558
35°	18146	12319	5950	3192	2838	11349
45°	16207	6202	1622	1724	1670	12361
55°	10190	2088	1086	1268	1353	9106
65°	3788	1070	965	1158	1096	3936
75°	888	608	1074	786	689	1036
85°	118	236	209	187	148	165
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	18605.7	18605.7	18605.7	18605.7	18605.7
2.5°	18688.7	18652.0	18510.0	18621.7	18589.8
5°	18679.1	18639.2	18463.8	18538.7	18492.5
7.5°	18672.7	18613.7	18364.9	18342.5	18246.8
10°	18671.1	18567.5	18175.1	17959.7	17798.6
12.5°	18674.3	18490.9	17864.0	17388.6	17061.6
15°	18632.9	18380.8	17385.5	16482.6	16005.7
17.5°	18594.6	18128.8	16782.5	15374.0	14657.8
20°	18526.0	17879.9	15905.2	14014.9	13163.1
22.5°	18506.8	17503.5	14796.5	12265.0	11421.2
25°	18510.0	16981.9	13295.5	10336.5	9433.7
27.5°	18474.9	16286.4	11660.5	8471.8	7403.1
30°	18427.1	15300.6	9730.4	6473.1	5592.6
32.5°	18342.5	13917.6	7754.0	4613.2	3882.6
35°	18146.3	12319.3	5949.9	3191.9	2837.8
37.5°	17873.6	10542.3	4011.8	2395.9	2338.5
40°	17519.4	8929.6	2590.5	2094.4	2124.7
42.5°	16970.7	7537.0	1891.8	1904.6	1907.8
45°	16206.6	6201.9	1622.3	1724.3	1670.1
47.5°	15201.7	4870.0	1473.9	1502.6	1494.6
50°	13812.3	3646.5	1351.1	1344.7	1397.3
52.5°	12094.4	2697.4	1225.1	1279.3	1378.2
55°	10189.8	2088.0	1086.3	1268.1	1352.7
57.5°	8363.3	1692.4	1006.5	1236.2	1285.7
60°	6648.6	1410.1	998.6	1177.2	1210.7
62.5°	5136.4	1209.1	993.8	1148.5	1161.3
65°	3788.5	1070.3	965.1	1158.1	1095.9
67.5°	2759.6	1025.7	942.7	1142.1	1009.7
70°	1946.1	901.3	952.3	1054.4	912.4
72.5°	1320.8	752.9	1059.2	930.0	799.2
75°	888.5	607.7	1073.5	786.4	689.1
77.5°	577.4	505.7	912.4	642.8	571.1
80°	363.7	421.1	642.8	494.5	430.7
82.5°	236.1	323.8	406.8	349.3	296.7
85°	118.0	236.1	209.0	186.6	148.3
87.5°	70.2	143.6	111.7	81.4	75.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)