

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: P685547

Luminaire Tested: **8CZL-24-UNV-FL-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685547
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-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @80 CRI and 3500K
Light Source: (1176) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

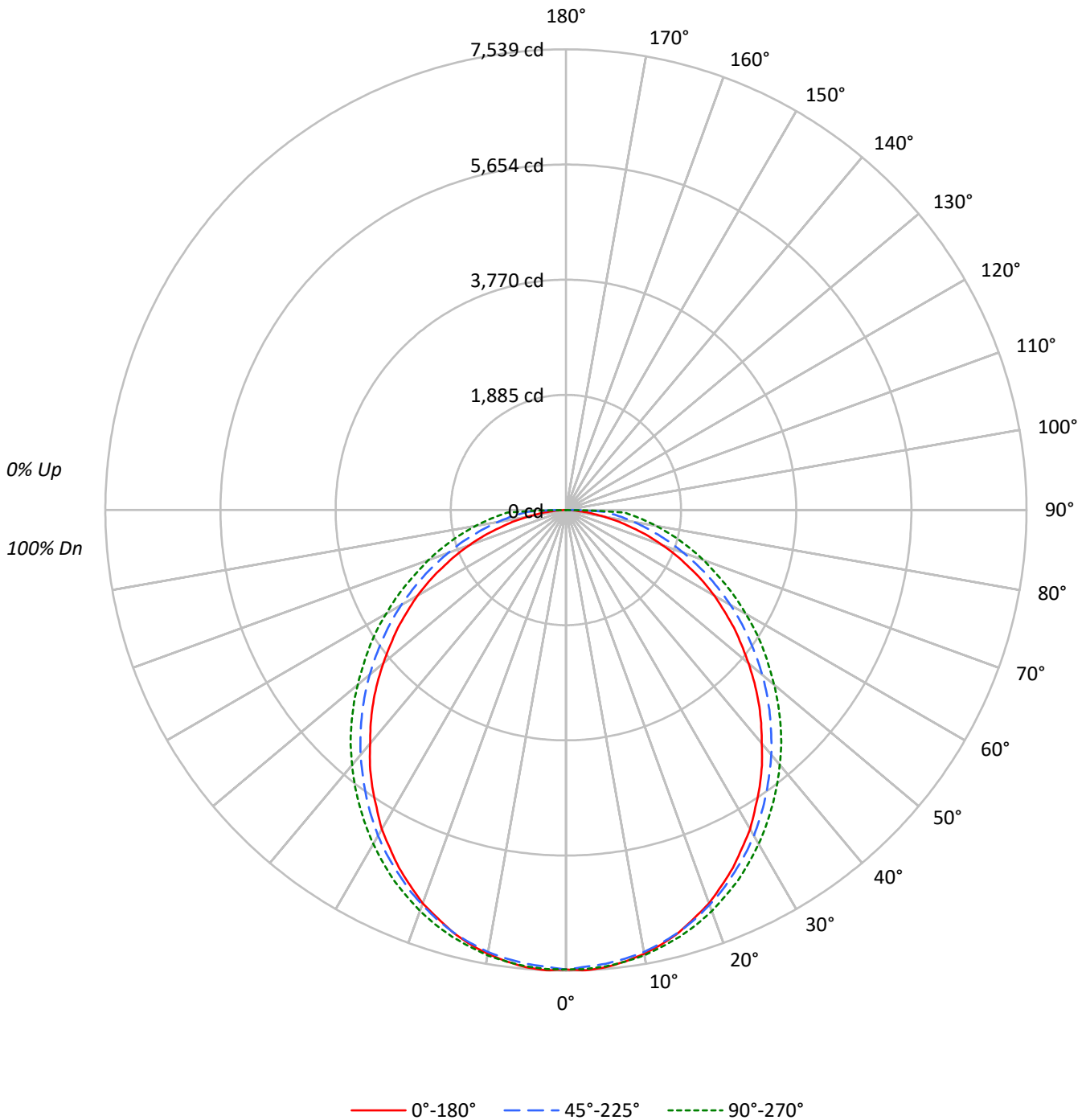
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21174.5 lumens
Efficiency: N/A
Efficacy: 137.5 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	100	100	100	100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82	82	82	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68	68	68	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57	57	57	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49	49	49	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42	42	42	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37	37	37	37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12137	12137	12137
5°	12161	11998	12044
10°	12070	11878	11922
15°	11925	11707	11761
20°	11725	11487	11577
25°	11458	11232	11368
30°	11172	10976	11122
35°	10818	10663	10857
40°	10419	10348	10589
45°	10084	9996	10310
50°	9678	9634	9983
55°	9306	9239	9689
60°	8897	8844	9352
65°	8351	8422	9057
70°	7718	7953	8879
75°	6778	7558	8776
80°	5570	7302	8893
85°	3738	7469	9634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.1	3.4
10°-20°	2023.3	9.6
20°-30°	3022.0	14.3
30°-40°	3574.0	16.9
40°-50°	3641.7	17.2
50°-60°	3263.2	15.4
60°-70°	2541.7	12.0
70°-80°	1645.5	7.8
80°-90°	752.0	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°	5756.4	27.2
0°-40°	9330.4	44.1
0°-60°	16235.3	76.7
0°-90°	21174.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21174.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7517	7517	7517	7517	7517	
5°	7510	7497	7453	7497	7496	712
15°	7154	7154	7150	7217	7224	2015
25°	6463	6486	6534	6650	6678	2974
35°	5528	5581	5706	5860	5894	3454
45°	4462	4542	4720	4900	4967	3439
55°	3355	3449	3648	3858	3934	2995
65°	2235	2332	2573	2789	2879	2220
75°	1129	1273	1565	1825	1932	1211
85°	226	436	763	1039	1114	290
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7517.3	7517.3	7517.3	7517.3	7517.3
2.5°	7538.7	7525.8	7480.1	7520.1	7518.7
5°	7510.1	7497.3	7453.0	7497.3	7495.8
7.5°	7451.5	7447.2	7407.2	7455.8	7451.5
10°	7375.8	7370.1	7344.4	7392.9	7400.1
12.5°	7275.8	7272.9	7252.9	7310.1	7314.4
15°	7154.3	7154.3	7150.0	7217.2	7224.3
17.5°	6998.6	7018.6	7022.9	7095.7	7111.5
20°	6850.0	6855.7	6875.7	6964.3	6982.9
22.5°	6654.2	6678.5	6718.5	6815.7	6831.4
25°	6462.8	6485.6	6534.2	6649.9	6678.5
27.5°	6239.9	6284.1	6351.3	6467.0	6495.6
30°	6028.4	6065.5	6152.7	6281.3	6309.9
32.5°	5769.8	5832.6	5932.6	6068.4	6107.0
35°	5528.3	5581.1	5705.5	5859.8	5894.1
37.5°	5269.7	5332.5	5464.0	5628.3	5675.5
40°	4986.7	5078.2	5231.1	5395.4	5445.4
42.5°	4728.1	4812.4	4973.9	5159.6	5216.8
45°	4462.3	4542.4	4719.5	4899.6	4966.7
47.5°	4185.1	4268.0	4460.9	4652.4	4712.4
50°	3900.8	3999.4	4192.3	4393.8	4448.1
52.5°	3617.9	3716.5	3920.8	4122.3	4183.7
55°	3355.0	3449.3	3647.9	3857.9	3933.7
57.5°	3069.2	3169.2	3387.8	3590.7	3672.2
60°	2804.9	2877.7	3109.2	3319.3	3397.8
62.5°	2531.9	2610.5	2836.3	3052.1	3144.9
65°	2234.7	2331.9	2573.4	2789.1	2879.2
67.5°	1963.3	2056.1	2304.8	2547.7	2620.5
70°	1681.8	1788.9	2046.1	2294.8	2397.6
72.5°	1413.1	1524.6	1807.5	2054.7	2159.0
75°	1128.8	1273.1	1564.6	1824.7	1931.8
77.5°	894.5	1037.4	1336.0	1607.5	1710.4
80°	634.4	810.2	1133.1	1407.4	1498.9
82.5°	422.9	601.6	940.2	1207.4	1306.0
85°	225.8	435.8	763.0	1038.8	1114.5
87.5°	98.6	304.3	618.7	864.5	954.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)