

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: P685428

Luminaire Tested: **8CZL-32-UNV-M-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685428
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-M-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT MEDIUM LENS MODEL @80 CRI and 3500K
Light Source: (1176) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

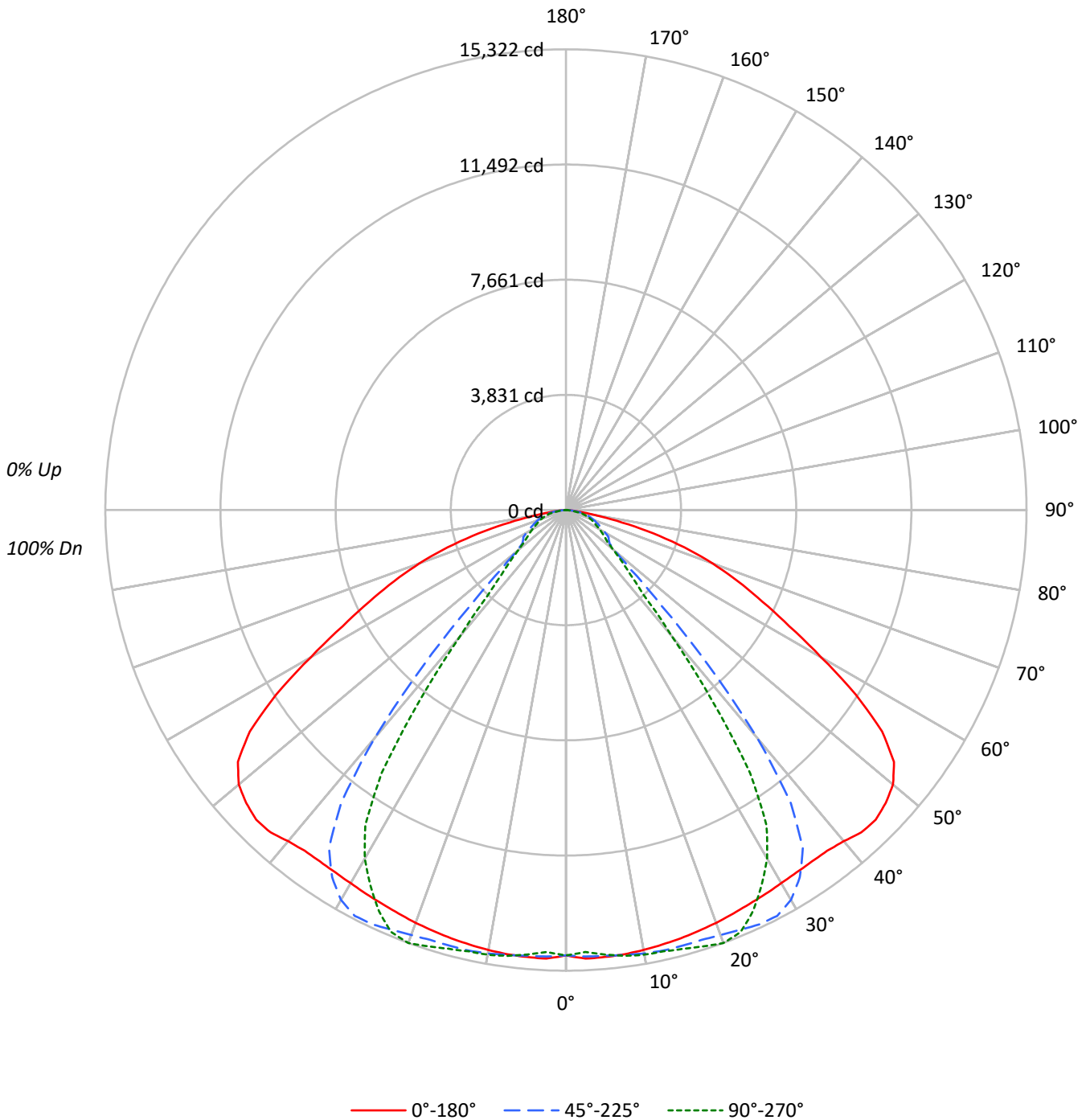
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32004.7 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.28 / 1.22
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				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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	79	79	79	77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	70	70	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	65	57	51	75	64	56	51	62	55	51	61	55	50	59	54	50	50	50	50	48
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	45	45	45	43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	41	41	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	37	37	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	34	34	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23918	23918	23918
5°	24186	24118	24050
10°	24362	24552	24621
15°	24651	25073	25249
20°	25104	25839	26327
25°	25747	27097	26229
30°	26716	27913	24951
35°	28121	27077	21070
40°	30307	20882	11524
45°	33273	10266	6887
50°	35677	5365	5136
55°	36133	4897	4433
60°	31687	4881	4179
65°	27574	4690	4046
70°	24470	4751	4073
75°	18772	4879	4135
80°	9555	4957	3424
85°	3768	2794	974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1419.4	4.4
10°-20°	4230.5	13.2
20°-30°	6827.5	21.3
30°-40°	7996.0	25.0
40°-50°	5443.4	17.0
50°-60°	3151.9	9.8
60°-70°	1802.0	5.6
70°-80°	927.5	2.9
80°-90°	206.5	0.6
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°	12477.3	39.0
0°-40°	20473.4	64.0
0°-60°	29068.7	90.8
0°-90°	32004.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32004.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14814	14814	14814	14814	14814	
5°	14923	14776	14880	14863	14838	1422
15°	14747	14725	15000	15038	15105	4175
25°	14453	14656	15210	14976	14723	6689
35°	14267	14972	13737	11585	10690	8982
45°	14572	10842	4496	3028	3016	11195
55°	12836	3721	1740	1619	1575	11184
65°	7218	1327	1228	1084	1059	7237
75°	3009	820	782	682	663	3199
85°	203	248	151	70	53	345
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14813.9	14813.9	14813.9	14813.9	14813.9	14813.9	14813.9	14813.9	14813.9	14813.9	14813.9
2.5°	14933.1	14891.0	14806.8	14771.8	14771.8	14863.0	14877.0	14820.9	14810.4	14761.3	14715.7
5°	14922.6	14880.5	14799.8	14768.3	14778.8	14880.5	14905.0	14859.5	14873.5	14859.5	14838.4
7.5°	14901.5	14855.9	14782.3	14761.3	14792.8	14922.6	14964.7	14940.1	14971.7	14964.7	14957.6
10°	14859.5	14824.4	14754.2	14750.7	14813.9	14975.2	15027.8	14996.2	15006.7	15003.2	15017.3
12.5°	14803.3	14771.8	14712.2	14743.7	14834.9	15006.7	15041.8	14992.7	15006.7	15010.3	15034.8
15°	14747.2	14708.6	14670.1	14743.7	14838.4	14999.7	15034.8	15027.8	15069.9	15073.4	15104.9
17.5°	14677.1	14652.5	14642.0	14740.2	14813.9	14992.7	15073.4	15115.5	15171.6	15185.6	15217.2
20°	14610.4	14589.4	14614.0	14722.7	14803.3	15038.3	15150.5	15213.7	15273.3	15290.8	15322.4
22.5°	14529.8	14515.8	14582.4	14698.1	14820.9	15108.5	15234.7	15241.7	15217.2	15171.6	15192.6
25°	14452.6	14452.6	14550.8	14691.1	14873.5	15210.2	15220.7	15020.8	14841.9	14722.7	14722.7
27.5°	14389.5	14403.5	14526.3	14722.7	14975.2	15217.2	14926.1	14529.8	14266.8	14094.9	14084.4
30°	14329.9	14354.4	14526.3	14810.4	15048.8	14971.7	14407.0	13926.6	13561.8	13397.0	13383.0
32.5°	14287.8	14326.4	14589.4	14943.6	14961.2	14477.2	13740.7	13134.0	12702.6	12457.1	12415.0
35°	14266.8	14312.3	14708.6	15059.4	14606.9	13737.2	12692.1	11755.7	11071.8	10756.2	10689.5
37.5°	14280.8	14361.4	14873.5	14961.2	13719.7	12281.8	10780.7	9437.5	8497.6	8199.5	7992.6
40°	14379.0	14515.8	15003.2	14161.5	11857.4	9907.5	7919.0	6474.0	5825.2	5611.3	5467.5
42.5°	14543.8	14680.6	14663.1	12330.9	9262.2	7038.7	5102.8	4236.5	3920.9	3885.8	3819.2
45°	14571.9	14624.5	13561.8	9935.5	6737.1	4496.1	3286.1	3030.1	3023.1	3047.6	3016.1
47.5°	14424.6	14322.9	11973.1	7599.8	4639.9	2907.4	2472.5	2514.6	2535.6	2518.1	2493.5
50°	14203.6	13828.4	10191.5	5586.8	3093.2	2135.8	2156.8	2195.4	2121.8	2072.7	2044.6
52.5°	13754.7	13025.3	8213.6	3959.5	2139.3	1823.7	1992.0	1879.8	1774.6	1746.5	1743.0
55°	12835.9	11832.8	6319.7	2854.8	1634.3	1739.5	1771.1	1627.3	1595.7	1581.7	1574.7
57.5°	11436.6	10349.4	4752.1	2062.2	1434.4	1679.9	1539.6	1483.5	1451.9	1441.4	1430.9
60°	9812.8	8690.5	3542.1	1515.1	1392.3	1511.5	1395.8	1343.2	1308.1	1294.1	1294.1
62.5°	8374.9	7193.0	2619.8	1231.0	1381.8	1364.2	1259.0	1202.9	1181.9	1174.9	1167.9
65°	7217.5	5786.7	1890.3	1139.8	1290.6	1227.5	1125.8	1087.2	1073.2	1059.1	1059.1
67.5°	6186.5	4531.1	1392.3	1118.8	1185.4	1104.7	1027.6	996.0	978.5	975.0	971.5
70°	5183.4	3338.7	1059.1	1094.2	1125.8	1006.5	932.9	894.3	873.3	862.7	862.7
72.5°	4127.8	2290.1	845.2	1006.5	1031.1	890.8	817.1	789.1	771.6	761.0	757.5
75°	3009.1	1437.9	743.5	845.2	887.3	782.1	708.4	683.9	676.9	666.3	662.8
77.5°	1914.9	859.2	634.8	690.9	726.0	659.3	603.2	571.7	568.1	557.6	554.1
80°	1027.6	550.6	508.5	543.6	564.6	533.1	466.4	403.3	385.8	371.7	368.2
82.5°	477.0	350.7	378.8	410.3	420.8	340.2	280.6	252.5	235.0	217.4	206.9
85°	203.4	189.4	235.0	252.5	206.9	150.8	98.2	73.6	59.6	56.1	52.6
87.5°	73.6	73.6	87.7	59.6	35.1	28.1	28.1	24.5	21.0	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)