

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: P842962

Luminaire Tested: **22CZ2-39HE-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-UNV-B35
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

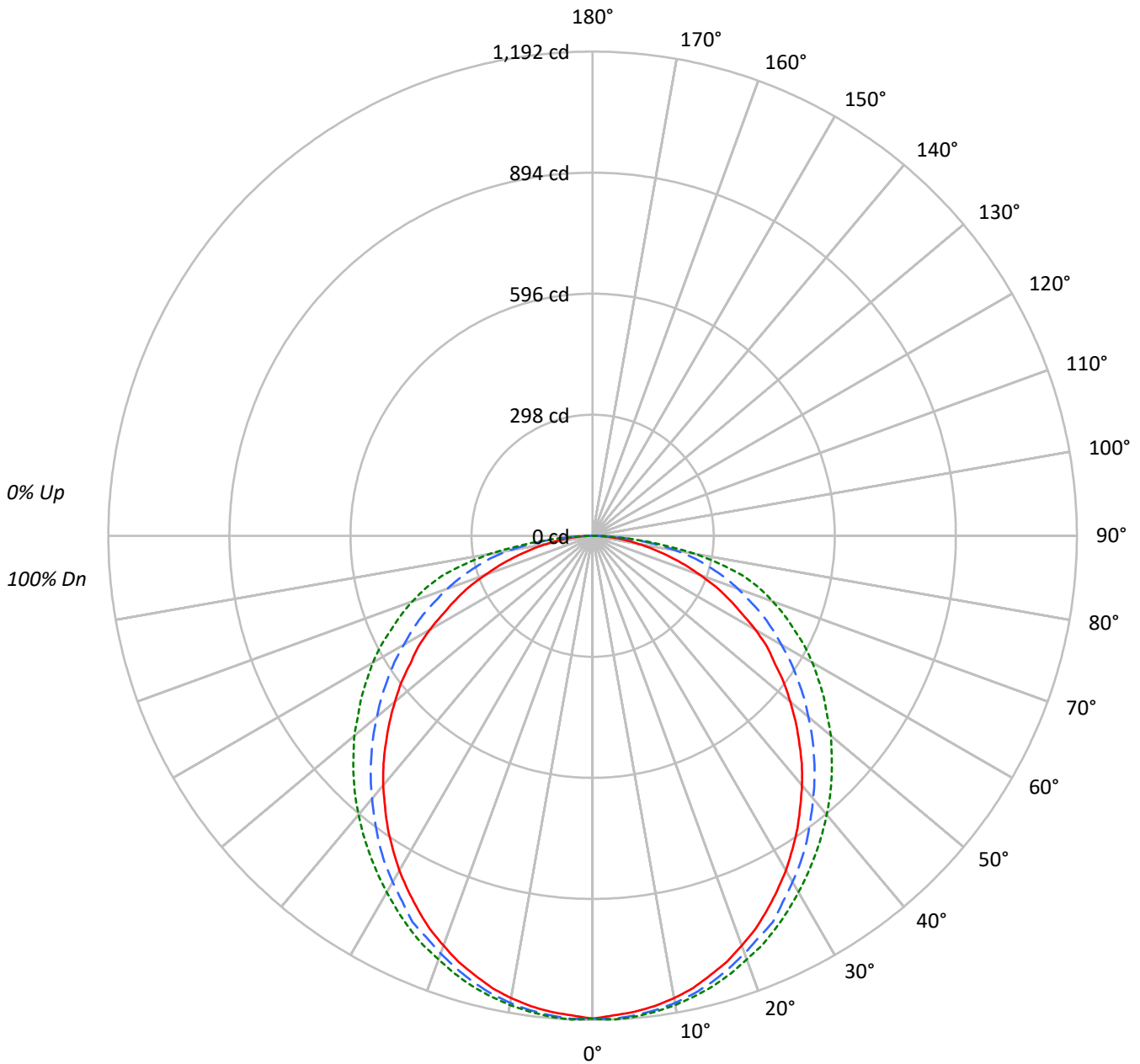
Lumens per Lamp: N/A
Luminaire Lumens: 3496.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
Input Voltage (V): NR
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									
RC	80									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																			
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56																			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48																			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36																			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32																			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28																			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3373	3373	3373
5°	3352	3376	3386
10°	3331	3365	3380
15°	3290	3340	3371
20°	3241	3304	3350
25°	3183	3286	3339
30°	3117	3224	3320
35°	3045	3182	3313
40°	2969	3129	3320
45°	2886	3093	3341
50°	2802	3060	3380
55°	2707	3047	3438
60°	2626	3046	3544
65°	2494	3095	3673
70°	2327	3154	3911
75°	2132	3264	4225
80°	1856	3401	4160
85°	1628	3025	3308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	3.2
10°-20°	320.2	9.2
20°-30°	480.7	13.7
30°-40°	574.4	16.4
40°-50°	597.3	17.1
50°-60°	553.6	15.8
60°-70°	454.1	13.0
70°-80°	307.0	8.8
80°-90°	96.5	2.8
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°	913.3	26.1
0°-40°	1487.7	42.6
0°-60°	2638.5	75.5
0°-90°	3496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1177	1178	1185	1187	1189	112
15°	1120	1125	1137	1144	1147	316
25°	1017	1025	1049	1061	1067	468
35°	879	891	919	946	956	549
45°	719	733	771	815	832	555
55°	547	564	616	671	695	492
65°	372	392	461	521	547	367
75°	194	227	298	358	385	206
85°	50	69	93	103	102	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1188.7	1188.7	1188.7	<i>1188.7</i>	1188.7
2.5°	<i>1181.8</i>	<i>1185.2</i>	<i>1190.3</i>	<i>1192.2</i>	<i>1192.2</i>
5°	1176.7	1178.3	1185.2	<i>1187.0</i>	1188.7
7.5°	1167.9	1171.5	1178.3	<i>1180.2</i>	1181.8
10°	1155.9	1159.4	1167.9	<i>1171.5</i>	1173.1
12.5°	1140.6	1143.9	1154.3	<i>1159.4</i>	1161.1
15°	1119.9	1125.0	1137.1	<i>1143.9</i>	1147.4
17.5°	1099.3	1104.3	1116.5	<i>1126.7</i>	1130.2
20°	1073.4	1085.4	1094.1	<i>1107.8</i>	1109.5
22.5°	1047.7	1054.5	1069.9	<i>1083.8</i>	1090.6
25°	1016.6	1025.3	1049.4	<i>1061.4</i>	1066.6
27.5°	984.1	996.1	1015.0	<i>1033.8</i>	1040.7
30°	951.3	959.8	984.1	<i>1006.2</i>	1013.3
32.5°	915.2	927.3	953.0	<i>975.4</i>	985.7
35°	879.0	891.0	918.6	<i>946.1</i>	956.5
37.5°	839.6	853.3	880.8	<i>913.4</i>	927.3
40°	801.6	812.0	844.6	<i>884.1</i>	896.2
42.5°	762.0	774.1	808.5	<i>851.6</i>	865.3
45°	719.1	732.8	770.8	<i>815.3</i>	832.5
47.5°	677.7	691.6	732.8	<i>777.6</i>	798.1
50°	634.8	652.0	693.2	<i>744.8</i>	765.6
52.5°	593.5	609.1	655.5	<i>708.8</i>	727.6
55°	547.1	564.3	615.9	<i>670.8</i>	694.9
57.5°	509.1	521.2	578.0	<i>634.8</i>	658.8
60°	462.7	478.2	536.7	<i>596.8</i>	624.4
62.5°	412.9	438.7	498.8	<i>560.8</i>	588.3
65°	371.5	392.2	461.0	<i>521.2</i>	547.1
67.5°	328.6	351.0	417.9	<i>481.8</i>	511.0
70°	280.5	309.7	380.2	<i>443.8</i>	471.4
72.5°	237.4	268.5	340.6	<i>402.6</i>	431.8
75°	194.5	227.0	297.7	<i>357.8</i>	385.4
77.5°	153.2	189.3	258.1	<i>304.5</i>	321.7
80°	113.6	148.0	208.1	<i>240.9</i>	254.6
82.5°	79.2	108.4	153.2	<i>170.4</i>	173.7
85°	50.0	68.8	92.9	<i>103.2</i>	101.6
87.5°	22.4	27.6	34.4	<i>37.9</i>	36.1
90°	0.0	0.0	0.0	<i>0.0</i>	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)