

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: P842948

Luminaire Tested: **22CZ2-34HE-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842948
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: 22CZ2-34HE-UNV-B40
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

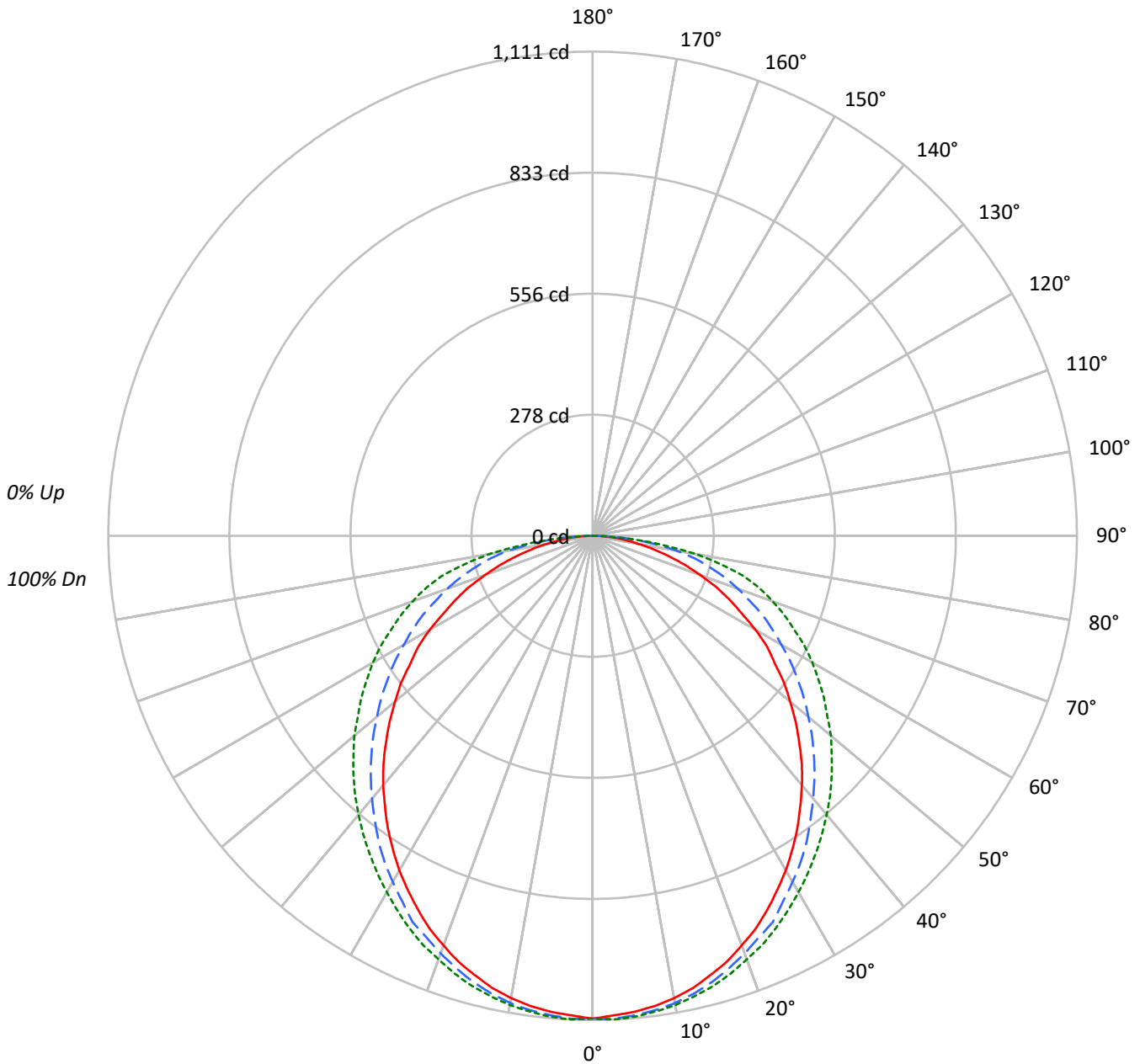
Lumens per Lamp: N/A
Luminaire Lumens: 3258.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 30
Input Voltage (V): NR
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	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	100	100		
	1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82	82	82	82	82	82		
	2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68	68	68	68	68	68		
	3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56	56	56	56	56	56		
	4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48	48	48	48	48	48		
	5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41	41	41	41	41	41		
	6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36	36	36	36	36	36		
	7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32	32	32	32	32	32		
	8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28	28	28	28	28	28		
	9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25	25	25	25	25	25		
	10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23	23	23	23	23	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3143	3143	3143
5°	3123	3146	3155
10°	3104	3136	3150
15°	3066	3113	3141
20°	3021	3079	3122
25°	2966	3062	3112
30°	2905	3005	3094
35°	2837	2965	3088
40°	2767	2916	3094
45°	2689	2882	3114
50°	2611	2852	3150
55°	2522	2840	3204
60°	2447	2839	3302
65°	2324	2885	3423
70°	2169	2939	3645
75°	1987	3041	3937
80°	1730	3170	3876
85°	1517	2816	3083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.2
10°-20°	298.4	9.2
20°-30°	448.0	13.7
30°-40°	535.3	16.4
40°-50°	556.6	17.1
50°-60°	515.9	15.8
60°-70°	423.2	13.0
70°-80°	286.1	8.8
80°-90°	89.9	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°	851.1	26.1
0°-40°	1386.4	42.6
0°-60°	2458.9	75.5
0°-90°	3258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1096	1098	1104	1106	1108	104
15°	1044	1048	1060	1066	1069	294
25°	947	956	978	989	994	436
35°	819	830	856	882	891	512
45°	670	683	718	760	776	517
55°	510	526	574	625	648	458
65°	346	366	430	486	510	342
75°	181	212	277	333	359	192
85°	47	64	86	96	95	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.8	1107.8	1107.8	<i>1107.8</i>	1107.8
2.5°	<i>1101.4</i>	<i>1104.5</i>	<i>1109.3</i>	<i>1111.0</i>	<i>1111.0</i>
5°	1096.5	1098.1	1104.5	<i>1106.2</i>	1107.8
7.5°	1088.4	1091.7	1098.1	<i>1099.8</i>	1101.4
10°	1077.2	1080.5	1088.4	<i>1091.7</i>	1093.3
12.5°	1062.9	1066.0	1075.7	<i>1080.5</i>	1082.1
15°	1043.6	1048.4	1059.6	<i>1066.0</i>	1069.3
17.5°	1024.5	1029.1	1040.5	<i>1050.0</i>	1053.3
20°	1000.3	1011.5	1019.7	<i>1032.4</i>	1034.0
22.5°	976.4	982.8	997.1	<i>1010.0</i>	1016.4
25°	947.4	955.5	977.9	<i>989.1</i>	994.0
27.5°	917.1	928.3	945.9	<i>963.4</i>	969.8
30°	886.5	894.5	917.1	<i>937.7</i>	944.3
32.5°	852.9	864.1	888.1	<i>909.0</i>	918.6
35°	819.1	830.3	856.0	<i>881.7</i>	891.4
37.5°	782.4	795.2	820.9	<i>851.2</i>	864.1
40°	747.1	756.7	787.1	<i>824.0</i>	835.2
42.5°	710.2	721.4	753.4	<i>793.6</i>	806.4
45°	670.2	682.9	718.3	<i>759.8</i>	775.9
47.5°	631.5	644.5	682.9	<i>724.7</i>	743.8
50°	591.5	607.6	646.0	<i>694.1</i>	713.5
52.5°	553.1	567.6	610.9	<i>660.5</i>	678.1
55°	509.8	525.9	574.0	<i>625.2</i>	647.6
57.5°	474.5	485.7	538.6	<i>591.5</i>	614.0
60°	431.2	445.7	500.2	<i>556.2</i>	581.9
62.5°	384.8	408.8	464.8	<i>522.6</i>	548.3
65°	346.2	365.5	429.7	<i>485.7</i>	509.8
67.5°	306.2	327.1	389.5	<i>449.0</i>	476.2
70°	261.4	288.6	354.3	<i>413.6</i>	439.3
72.5°	221.2	250.2	317.4	<i>375.2</i>	402.4
75°	181.2	211.5	277.4	<i>333.4</i>	359.1
77.5°	142.8	176.4	240.5	<i>283.8</i>	299.8
80°	105.9	137.9	194.0	<i>224.5</i>	237.2
82.5°	73.8	101.0	142.8	<i>158.8</i>	161.9
85°	46.6	64.1	86.5	<i>96.2</i>	94.7
87.5°	20.9	25.7	32.1	<i>35.4</i>	33.6
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)