

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: P842947

Luminaire Tested: **22CZ2-34HE-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842947
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-B35
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

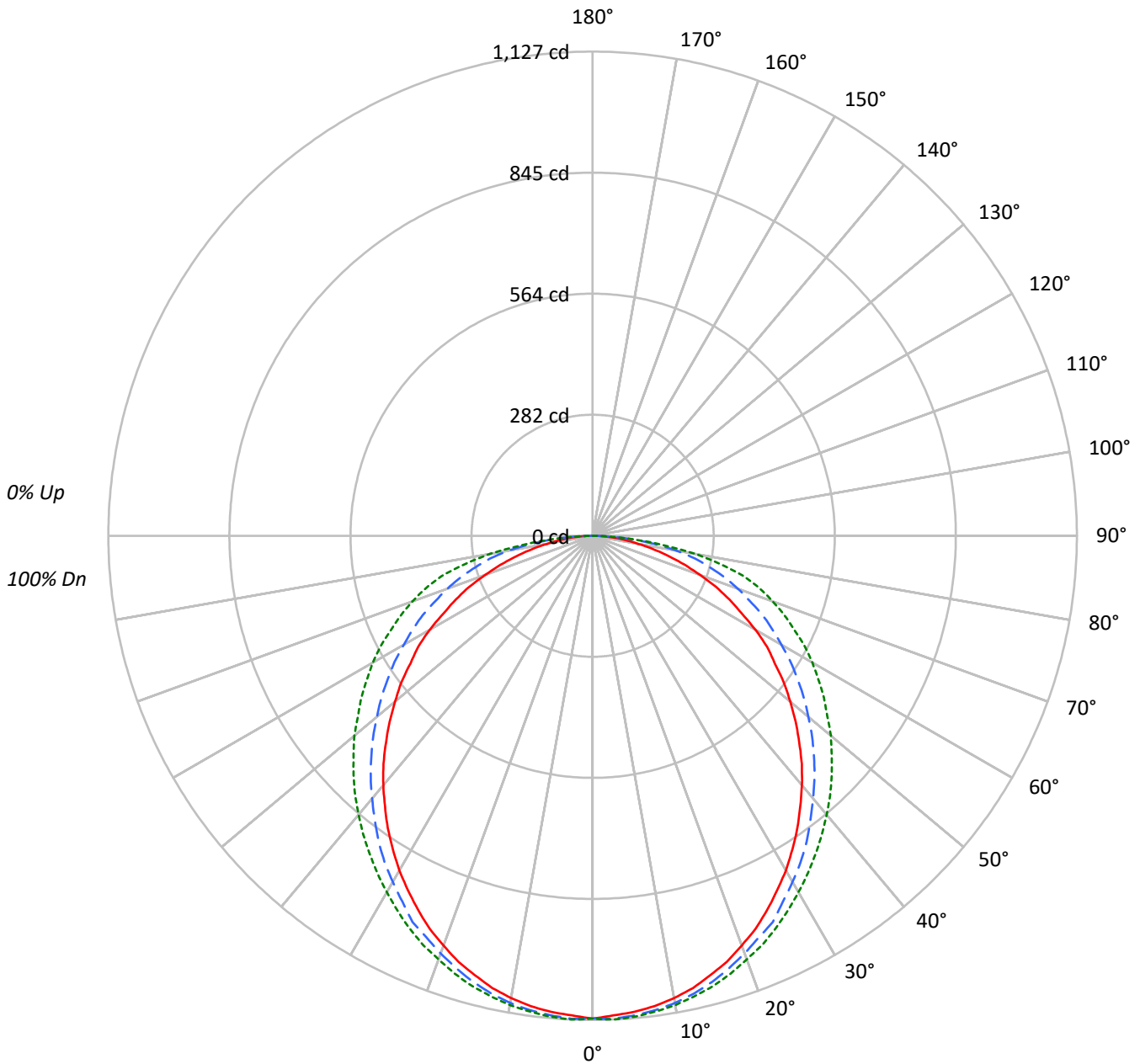
Lumens per Lamp: N/A
Luminaire Lumens: 3305.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 30
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P842947

CATALOG NUMBER: 22CZ2-34HE-UNV-B35

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°	3189	3189	3189
5°	3169	3191	3201
10°	3149	3181	3195
15°	3110	3158	3186
20°	3064	3124	3167
25°	3009	3106	3157
30°	2947	3048	3139
35°	2878	3008	3132
40°	2807	2957	3138
45°	2728	2924	3158
50°	2649	2893	3195
55°	2559	2880	3250
60°	2482	2880	3350
65°	2358	2927	3473
70°	2200	2982	3698
75°	2015	3085	3994
80°	1755	3216	3933
85°	1537	2859	3125



TEST NUMBER: P842947

CATALOG NUMBER: 22CZ2-34HE-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	3.2
10°-20°	302.7	9.2
20°-30°	454.4	13.7
30°-40°	543.0	16.4
40°-50°	564.6	17.1
50°-60°	523.3	15.8
60°-70°	429.3	13.0
70°-80°	290.2	8.8
80°-90°	91.2	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°	863.4	26.1
0°-40°	1406.4	42.6
0°-60°	2494.3	75.5
0°-90°	3305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1112	1114	1120	1122	1124	106
15°	1059	1064	1075	1081	1085	299
25°	961	969	992	1003	1008	443
35°	831	842	868	894	904	519
45°	680	693	729	771	787	525
55°	517	533	582	634	657	465
65°	351	371	436	493	517	347
75°	184	215	281	338	364	195
85°	47	65	88	98	96	54
90°	0	0	0	0	0	



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CATALOG NUMBER: 22CZ2-34HE-UNV-B35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.7	1123.7	1123.7	<i>1123.7</i>	1123.7
2.5°	<i>1117.3</i>	<i>1120.4</i>	<i>1125.3</i>	<i>1127.1</i>	<i>1127.1</i>
5°	1112.4	1113.9	1120.4	<i>1122.2</i>	1123.7
7.5°	1104.1	1107.5	1113.9	<i>1115.7</i>	1117.3
10°	1092.8	1096.1	1104.1	<i>1107.5</i>	1109.0
12.5°	1078.3	1081.4	1091.2	<i>1096.1</i>	1097.7
15°	1058.7	1063.6	1074.9	<i>1081.4</i>	1084.7
17.5°	1039.3	1044.0	1055.5	<i>1065.1</i>	1068.5
20°	1014.8	1026.1	1034.4	<i>1047.3</i>	1048.9
22.5°	990.5	996.9	1011.4	<i>1024.6</i>	1031.0
25°	961.1	969.3	992.0	<i>1003.4</i>	1008.3
27.5°	930.3	941.7	959.5	<i>977.3</i>	983.8
30°	899.3	907.4	930.3	<i>951.3</i>	957.9
32.5°	865.2	876.6	900.9	<i>922.1</i>	931.9
35°	830.9	842.3	868.4	<i>894.4</i>	904.2
37.5°	793.7	806.6	832.7	<i>863.5</i>	876.6
40°	757.8	767.6	798.4	<i>835.8</i>	847.2
42.5°	720.4	731.8	764.3	<i>805.1</i>	818.0
45°	679.8	692.8	728.6	<i>770.8</i>	787.0
47.5°	640.6	653.8	692.8	<i>735.1</i>	754.5
50°	600.1	616.3	655.3	<i>704.1</i>	723.7
52.5°	561.1	575.8	619.7	<i>670.0</i>	687.9
55°	517.2	533.4	582.2	<i>634.2</i>	656.9
57.5°	481.3	492.7	546.4	<i>600.1</i>	622.8
60°	437.4	452.1	507.4	<i>564.2</i>	590.3
62.5°	390.4	414.7	471.5	<i>530.1</i>	556.2
65°	351.2	370.8	435.9	<i>492.7</i>	517.2
67.5°	310.6	331.8	395.1	<i>455.5</i>	483.1
70°	265.2	292.8	359.4	<i>419.6</i>	445.7
72.5°	224.4	253.8	322.0	<i>380.6</i>	408.2
75°	183.8	214.6	281.4	<i>338.3</i>	364.3
77.5°	144.8	178.9	244.0	<i>287.9</i>	304.2
80°	107.4	139.9	196.8	<i>227.7</i>	240.7
82.5°	74.9	102.5	144.8	<i>161.1</i>	164.2
85°	47.2	65.1	87.8	<i>97.6</i>	96.0
87.5°	21.2	26.1	32.5	<i>35.9</i>	34.1
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)