

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: P842914

Luminaire Tested: **22CZ2-24HE-SQR-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387672)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-SQR-UNV-B35
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

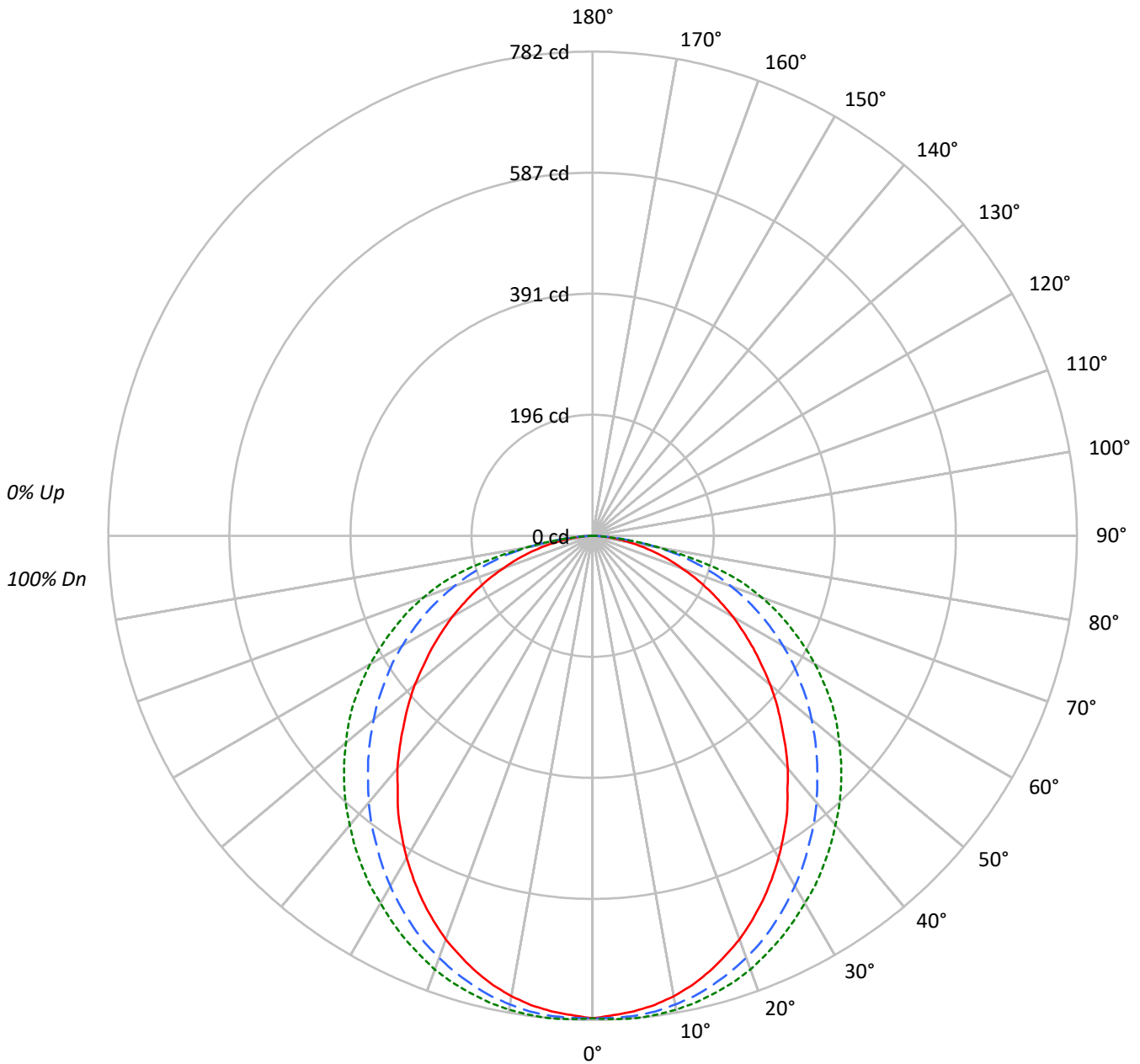
Lumens per Lamp: N/A
Luminaire Lumens: 2231.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2211	2211	2211
5°	2196	2217	2229
10°	2175	2215	2239
15°	2140	2206	2246
20°	2094	2190	2251
25°	2035	2168	2248
30°	1967	2141	2245
35°	1897	2109	2252
40°	1816	2083	2259
45°	1730	2057	2277
50°	1655	2038	2295
55°	1567	2022	2331
60°	1485	2014	2355
65°	1386	1998	2374
70°	1274	1968	2407
75°	1150	1916	2322
80°	987	1696	1748
85°	794	1003	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	3.3
10°-20°	211.2	9.5
20°-30°	317.3	14.2
30°-40°	378.4	17.0
40°-50°	391.2	17.5
50°-60°	359.7	16.1
60°-70°	286.3	12.8
70°-80°	175.0	7.8
80°-90°	38.1	1.7
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°	602.4	27.0
0°-40°	980.8	44.0
0°-60°	1731.6	77.6
0°-90°	2231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	771	773	778	781	782	73
15°	728	737	751	761	764	205
25°	650	666	692	712	718	299
35°	548	571	609	641	650	342
45°	431	462	512	554	568	333
55°	317	352	409	455	471	283
65°	206	241	298	339	354	205
75°	105	136	175	205	212	112
85°	24	30	31	26	24	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.3	779.3	779.3	779.3	779.3
2.5°	775.0	776.2	779.3	781.4	781.4
5°	770.8	772.9	778.3	781.4	782.5
7.5°	764.5	767.7	775.0	779.3	780.4
10°	755.0	759.2	768.7	775.0	777.2
12.5°	743.3	749.6	761.3	769.8	771.9
15°	728.5	736.9	750.8	761.3	764.5
17.5°	711.5	722.1	739.0	751.7	756.0
20°	693.6	704.2	725.3	740.2	745.4
22.5°	672.4	686.1	710.5	727.5	731.7
25°	650.1	666.1	692.5	711.5	717.9
27.5°	625.8	644.9	673.4	696.7	702.1
30°	600.4	620.5	653.3	678.8	685.1
32.5°	573.9	597.2	632.2	660.7	669.2
35°	547.5	570.8	608.9	640.6	650.1
37.5°	516.7	544.2	586.6	619.5	631.0
40°	490.3	516.7	562.3	598.3	609.9
42.5°	460.6	489.2	536.9	576.0	589.8
45°	431.0	461.6	512.5	553.8	567.5
47.5°	403.5	434.1	487.0	530.5	544.2
50°	374.8	406.6	461.6	506.1	519.9
52.5°	344.2	379.0	436.2	480.7	496.6
55°	316.7	351.5	408.7	455.3	471.2
57.5°	288.0	324.0	383.3	427.8	442.6
60°	261.6	296.5	354.8	398.1	415.0
62.5°	232.9	268.9	326.1	368.5	384.4
65°	206.5	241.4	297.6	338.8	353.6
67.5°	180.0	215.0	267.9	307.1	324.0
70°	153.6	188.5	237.2	275.3	290.1
72.5°	130.3	160.9	207.5	242.5	256.2
75°	104.9	135.5	174.8	205.4	211.8
77.5°	81.6	109.1	141.9	155.7	157.8
80°	60.4	81.6	103.8	107.0	107.0
82.5°	40.2	56.2	64.7	65.6	64.7
85°	24.4	29.6	30.8	26.5	24.4
87.5°	8.5	8.5	5.4	3.2	1.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)