

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: P842898

Luminaire Tested: **22CZ2-20HE-S-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20HE-S-UNV-B50
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

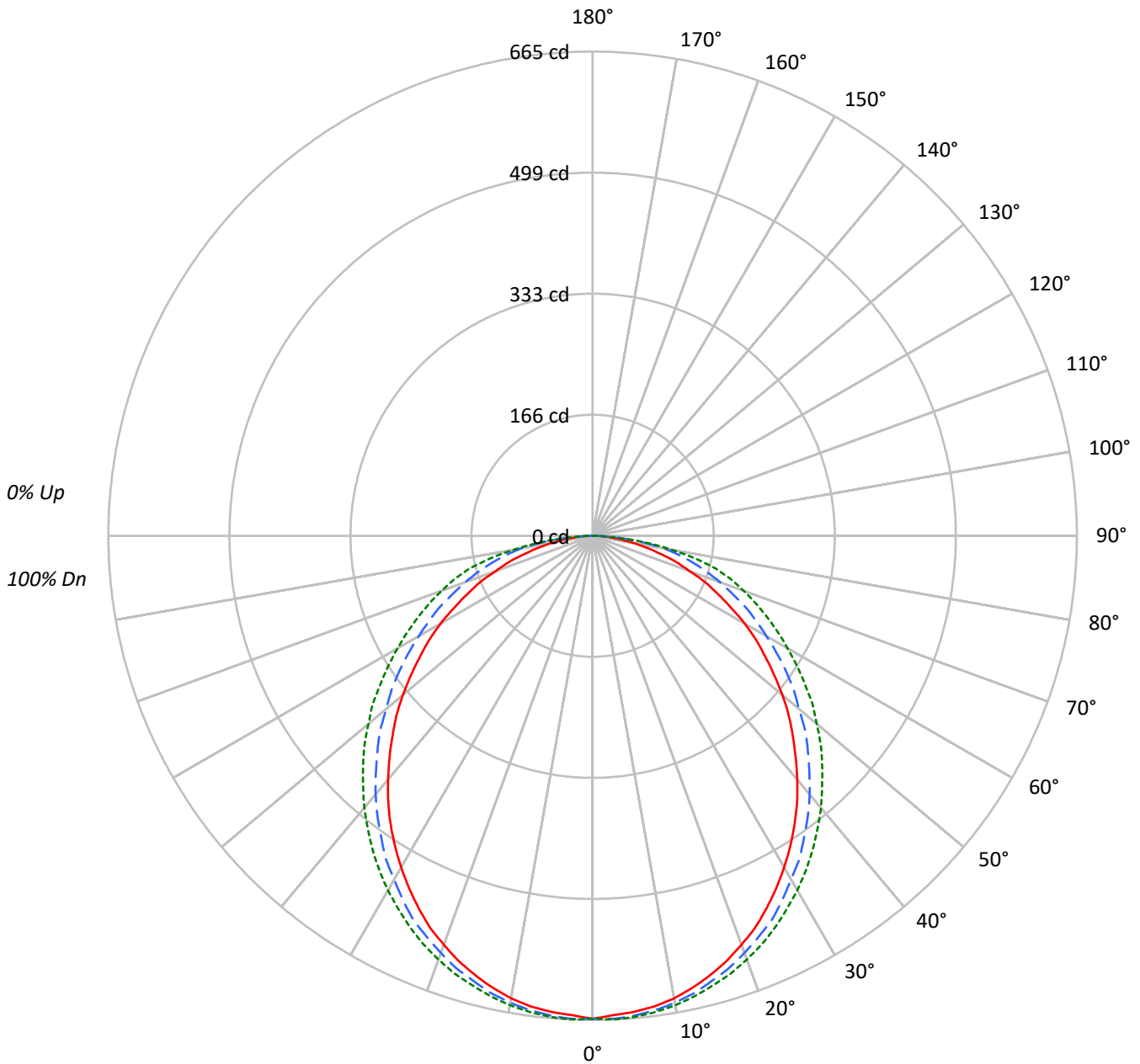
Lumens per Lamp: N/A
Luminaire Lumens: 1851.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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					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	100								
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	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	69	60	54	66	59	53	64	57	52	61	56	52	49								
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43								
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37								
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30								
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27								
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1882	1882	1882
5°	1870	1884	1889
10°	1859	1876	1886
15°	1835	1860	1877
20°	1805	1841	1870
25°	1768	1822	1858
30°	1723	1785	1842
35°	1675	1753	1825
40°	1619	1718	1807
45°	1559	1677	1789
50°	1502	1632	1773
55°	1431	1602	1760
60°	1367	1563	1755
65°	1276	1554	1774
70°	1175	1541	1827
75°	1060	1562	1923
80°	917	1610	1806
85°	759	1348	1348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.4
10°-20°	178.5	9.6
20°-30°	267.1	14.4
30°-40°	316.3	17.1
40°-50°	322.4	17.4
50°-60°	288.9	15.6
60°-70°	226.2	12.2
70°-80°	145.9	7.9
80°-90°	43.1	2.3
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°	508.3	27.5
0°-40°	824.6	44.5
0°-60°	1435.9	77.6
0°-90°	1851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1851.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	656	658	662	662	663	62
15°	624	628	633	638	639	176
25°	565	570	582	590	593	260
35°	484	490	506	522	527	302
45°	389	397	418	440	446	300
55°	289	299	324	346	356	259
65°	190	201	232	254	264	189
75°	97	111	142	167	175	104
85°	23	32	41	41	41	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	663.3	663.3	663.3	663.3	663.3
2.5°	658.9	660.7	664.1	665.0	665.0
5°	656.4	658.1	661.5	662.4	663.3
7.5°	652.0	652.9	657.2	658.9	659.8
10°	645.2	646.8	651.2	653.8	654.6
12.5°	635.6	638.2	643.4	646.8	647.8
15°	624.5	627.9	633.0	638.2	639.1
17.5°	612.3	615.8	622.7	628.7	630.5
20°	597.6	602.0	609.7	616.7	619.3
22.5°	582.9	586.4	595.9	604.6	607.2
25°	564.8	570.0	582.1	589.9	593.3
27.5°	545.8	551.8	564.0	574.3	577.7
30°	526.0	532.0	544.9	558.0	562.2
32.5°	505.2	512.2	527.7	540.7	544.9
35°	483.6	489.7	506.1	521.6	526.8
37.5°	461.2	466.4	485.4	501.8	507.0
40°	437.0	443.9	463.8	482.8	487.9
42.5°	412.8	420.6	440.5	461.2	466.4
45°	388.6	397.3	418.0	439.6	445.7
47.5°	365.3	372.2	395.6	416.3	424.9
50°	340.2	347.2	369.7	393.0	401.6
52.5°	314.3	323.9	348.0	370.5	380.8
55°	289.3	298.8	323.9	346.4	355.8
57.5°	266.0	273.7	299.6	322.9	332.5
60°	240.9	247.9	275.5	300.6	309.2
62.5°	214.2	224.5	253.0	276.3	286.7
65°	190.0	201.2	231.5	253.9	264.2
67.5°	167.6	177.9	207.3	231.5	242.7
70°	141.6	155.5	185.7	209.8	220.2
72.5°	120.9	133.0	164.1	188.3	199.5
75°	96.7	111.4	142.5	166.7	175.4
77.5°	76.9	91.6	120.9	139.9	144.2
80°	56.1	70.8	98.5	107.9	110.5
82.5°	38.0	51.8	70.8	73.4	74.3
85°	23.3	32.0	41.4	41.4	41.4
87.5°	11.2	12.9	14.7	13.8	13.8
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)