

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: P731951

Luminaire Tested: **22CZ2-20HE-S-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731951  
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-B2750-W2D-2700K  
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

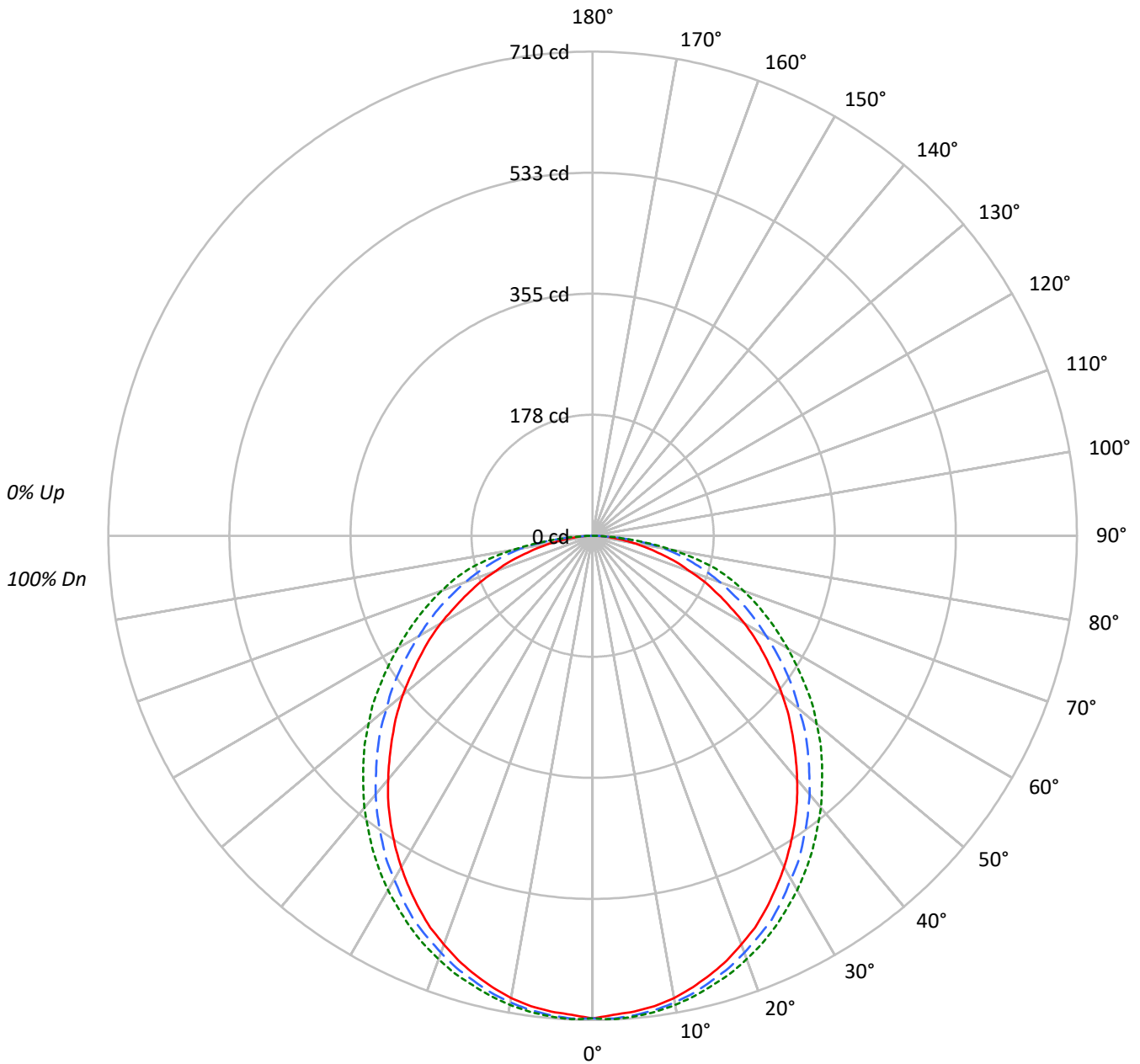
Lumens per Lamp: N/A  
Luminaire Lumens: 1975.0 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				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				100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83				83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69				69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58				58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49				49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43				43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37				37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30				30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24				24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2008	2008	2008
5°	1995	2010	2016
10°	1983	2002	2013
15°	1957	1984	2003
20°	1925	1964	1995
25°	1887	1945	1982
30°	1839	1905	1966
35°	1787	1871	1947
40°	1727	1833	1928
45°	1664	1790	1908
50°	1602	1741	1892
55°	1527	1710	1878
60°	1459	1668	1872
65°	1362	1658	1893
70°	1254	1644	1950
75°	1131	1666	2051
80°	979	1717	1927
85°	811	1439	1439



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.9	3.4
10°-20°	190.5	9.6
20°-30°	285.0	14.4
30°-40°	337.5	17.1
40°-50°	343.9	17.4
50°-60°	308.3	15.6
60°-70°	241.4	12.2
70°-80°	155.6	7.9
80°-90°	46.0	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°	542.4	27.5
0°-40°	879.9	44.5
0°-60°	1532.1	77.6
0°-90°	1975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1975.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	700	702	706	707	708	66
15°	666	670	675	681	682	188
25°	603	608	621	629	633	277
35°	516	522	540	557	562	323
45°	415	424	446	469	476	320
55°	309	319	346	370	380	277
65°	203	215	247	271	282	201
75°	103	119	152	178	187	111
85°	25	34	44	44	44	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	707.7	707.7	707.7	707.7	707.7
2.5°	703.0	704.9	708.6	709.6	709.6
5°	700.4	702.2	705.8	706.8	707.7
7.5°	695.7	696.6	701.3	703.0	704.0
10°	688.4	690.2	694.8	697.6	698.5
12.5°	678.2	680.9	686.5	690.2	691.2
15°	666.3	670.0	675.4	680.9	681.9
17.5°	653.3	657.1	664.4	670.8	672.7
20°	637.6	642.3	650.5	658.0	660.7
22.5°	622.0	625.6	635.9	645.1	647.9
25°	602.7	608.2	621.1	629.4	633.1
27.5°	582.3	588.8	601.8	612.8	616.4
30°	561.2	567.7	581.5	595.3	599.9
32.5°	539.0	546.5	563.0	576.9	581.5
35°	516.0	522.5	540.0	556.6	562.1
37.5°	492.1	497.6	517.9	535.4	540.9
40°	466.3	473.6	494.8	515.2	520.6
42.5°	440.4	448.7	470.0	492.1	497.6
45°	414.7	423.9	446.0	469.1	475.5
47.5°	389.8	397.1	422.1	444.2	453.4
50°	363.0	370.5	394.4	419.3	428.5
52.5°	335.4	345.6	371.3	395.3	406.3
55°	308.7	318.8	345.6	369.6	379.7
57.5°	283.8	292.1	319.7	344.6	354.8
60°	257.1	264.5	293.9	320.7	329.9
62.5°	228.5	239.5	270.0	294.8	305.9
65°	202.8	214.7	247.0	271.0	282.0
67.5°	178.8	189.8	221.2	247.0	259.0
70°	151.1	165.9	198.1	223.9	235.0
72.5°	129.0	141.9	175.1	200.9	212.9
75°	103.2	118.8	152.0	177.9	187.1
77.5°	82.1	97.7	129.0	149.2	153.9
80°	59.9	75.5	105.1	115.2	117.9
82.5°	40.5	55.3	75.5	78.3	79.3
85°	24.9	34.1	44.2	44.2	44.2
87.5°	12.0	13.8	15.7	14.8	14.8
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)