

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: P881059

Luminaire Tested: **22CZ2-20VHE-UNV-B35**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P881059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20VHE-UNV-B35
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

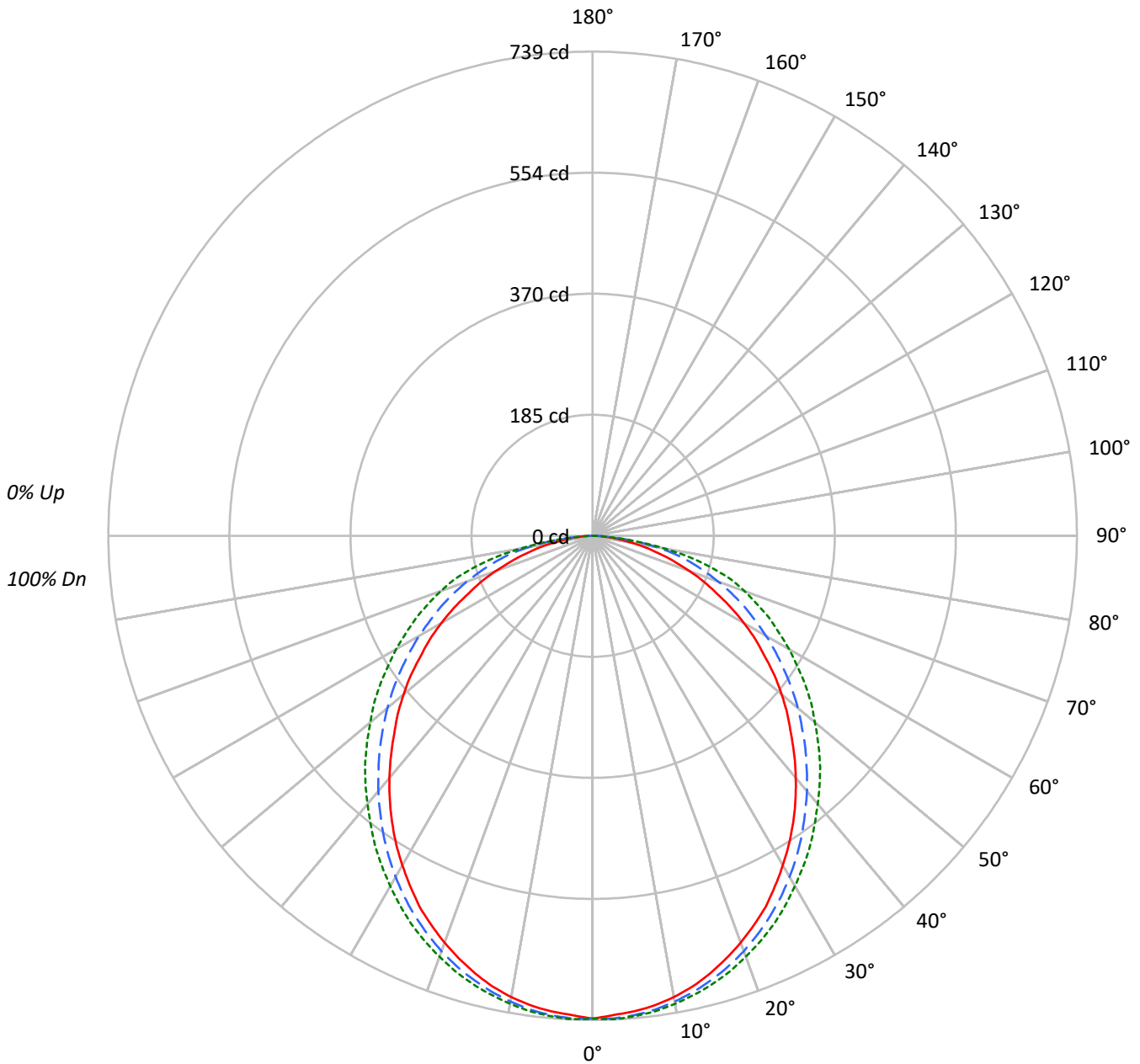
Lumens per Lamp: N/A
Luminaire Lumens: 2032.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (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									
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	77	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2091	2091	2091
5°	2076	2092	2097
10°	2060	2080	2090
15°	2032	2061	2080
20°	1996	2037	2065
25°	1956	2006	2048
30°	1902	1970	2023
35°	1849	1928	2004
40°	1787	1885	1979
45°	1718	1842	1970
50°	1662	1805	1955
55°	1585	1766	1959
60°	1514	1735	1965
65°	1407	1713	1995
70°	1301	1688	2045
75°	1163	1682	2058
80°	976	1593	1796
85°	755	1091	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.4
10°-20°	197.6	9.7
20°-30°	294.7	14.5
30°-40°	347.9	17.1
40°-50°	354.5	17.4
50°-60°	319.7	15.7
60°-70°	251.3	12.4
70°-80°	157.3	7.7
80°-90°	39.2	1.9
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°	561.9	27.7
0°-40°	909.8	44.8
0°-60°	1584.1	78.0
0°-90°	2032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	729	730	734	736	736	69
15°	692	695	702	707	708	195
25°	625	630	641	651	654	287
35°	534	541	557	572	578	334
45°	428	438	459	481	491	331
55°	320	330	357	384	396	288
65°	210	222	255	283	297	209
75°	106	122	153	181	188	113
85°	23	30	34	34	31	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	737.0	737.0	737.0	737.0	737.0
2.5°	732.1	734.0	737.4	738.7	738.7
5°	728.7	730.4	734.4	736.1	736.1
7.5°	723.1	724.8	729.6	731.7	732.1
10°	715.0	717.1	721.8	725.3	725.3
12.5°	704.7	706.8	712.8	717.1	717.5
15°	691.8	694.8	701.7	706.8	708.1
17.5°	676.8	681.5	689.2	695.7	697.0
20°	660.9	665.6	674.6	681.9	683.7
22.5°	643.3	647.6	658.3	667.4	669.5
25°	624.8	629.5	640.8	650.6	654.1
27.5°	602.9	608.5	621.8	632.9	636.5
30°	580.6	587.5	601.2	613.6	617.5
32.5°	557.9	564.3	579.7	593.0	598.2
35°	533.7	540.7	556.6	572.0	578.5
37.5°	508.4	515.3	532.5	550.1	556.1
40°	482.3	490.4	508.9	527.7	534.2
42.5°	455.7	464.2	483.5	504.6	513.1
45°	428.1	437.5	459.1	481.4	490.8
47.5°	403.2	410.9	433.3	457.8	466.8
50°	376.6	383.9	408.8	433.3	442.8
52.5°	349.6	356.5	383.1	408.8	420.4
55°	320.3	330.2	356.9	384.3	395.9
57.5°	294.6	303.6	331.1	359.0	370.2
60°	266.7	276.1	305.7	334.1	346.2
62.5°	238.7	249.1	279.1	309.6	320.8
65°	209.5	222.4	255.1	283.4	297.2
67.5°	184.7	197.1	229.3	259.0	271.0
70°	156.8	171.4	203.5	233.6	246.5
72.5°	130.5	145.1	178.2	208.3	221.1
75°	106.1	121.9	153.4	180.8	187.7
77.5°	82.5	97.5	128.8	144.7	152.1
80°	59.7	74.3	97.5	108.2	109.9
82.5°	40.3	52.9	66.2	69.2	67.5
85°	23.2	29.6	33.5	33.5	31.3
87.5°	9.4	9.4	8.2	5.1	3.0
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)