

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: P881053

Luminaire Tested: **22CZ2-20VHE-S-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: P881053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20VHE-S-UNV-B35
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

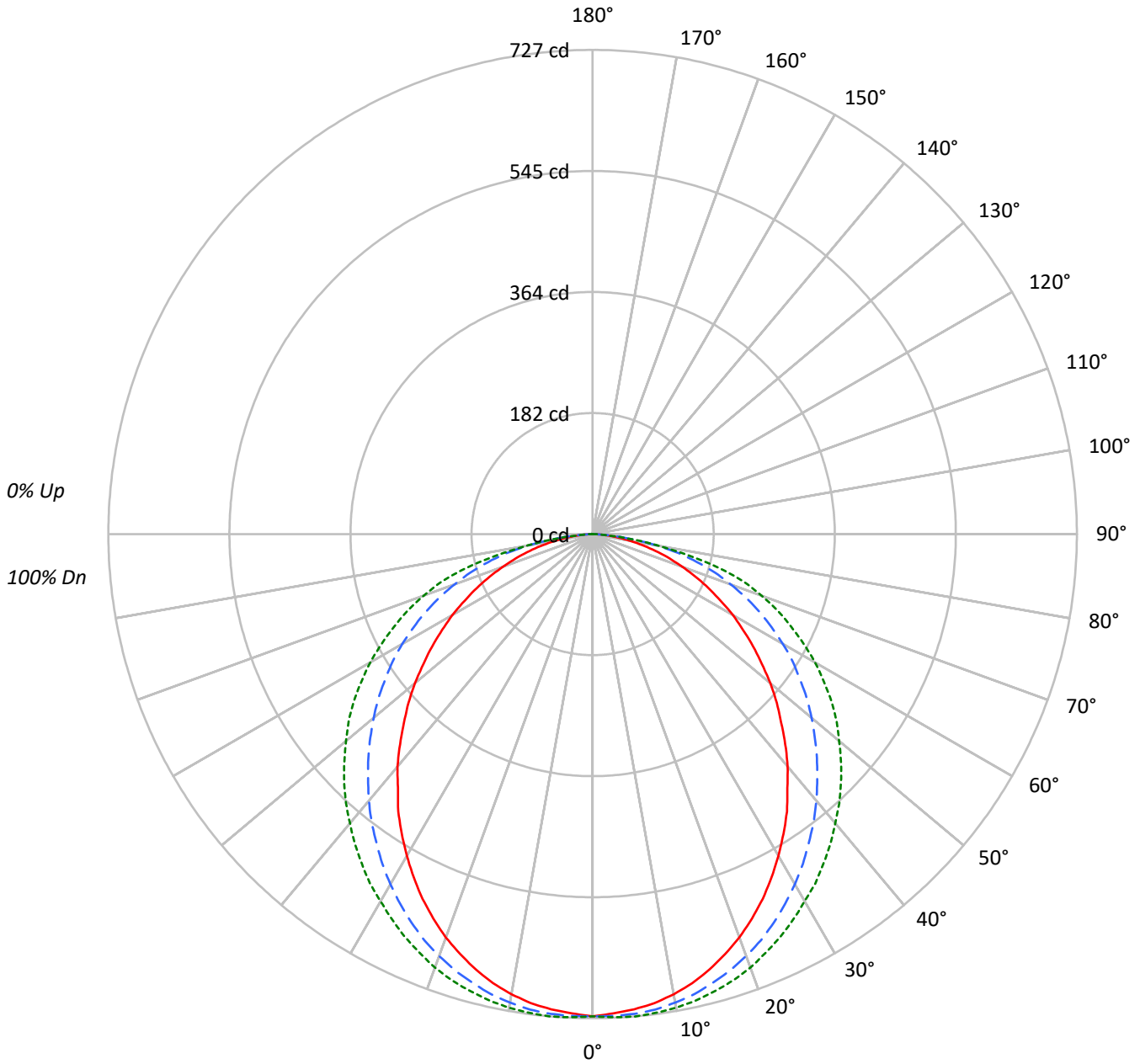
Lumens per Lamp: N/A
Luminaire Lumens: 2073.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2055	2055	2055
5°	2040	2060	2071
10°	2021	2058	2081
15°	1989	2049	2087
20°	1946	2035	2091
25°	1892	2015	2089
30°	1828	1989	2086
35°	1762	1960	2093
40°	1688	1935	2099
45°	1607	1911	2116
50°	1538	1894	2133
55°	1455	1878	2166
60°	1379	1871	2189
65°	1288	1856	2206
70°	1183	1828	2237
75°	1069	1779	2156
80°	915	1577	1624
85°	736	928	736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	3.3
10°-20°	196.3	9.5
20°-30°	294.8	14.2
30°-40°	351.6	17.0
40°-50°	363.5	17.5
50°-60°	334.2	16.1
60°-70°	266.1	12.8
70°-80°	162.6	7.8
80°-90°	35.3	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°	559.7	27.0
0°-40°	911.3	44.0
0°-60°	1609.1	77.6
0°-90°	2073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	716	718	723	726	727	68
15°	677	685	698	707	710	191
25°	604	619	644	661	667	278
35°	509	530	566	595	604	317
45°	400	429	476	515	527	310
55°	294	327	380	423	438	263
65°	192	224	276	315	329	190
75°	98	126	162	191	197	104
85°	23	28	28	25	23	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.1	724.1	724.1	724.1	724.1
2.5°	720.2	721.1	724.1	726.1	726.1
5°	716.2	718.2	723.1	726.1	727.1
7.5°	710.4	713.3	720.2	724.1	725.2
10°	701.5	705.5	714.3	720.2	722.1
12.5°	690.7	696.6	707.4	715.3	717.2
15°	677.0	684.8	697.5	707.4	710.4
17.5°	661.2	671.0	686.8	698.6	702.5
20°	644.4	654.3	674.0	687.7	692.6
22.5°	624.8	637.6	660.2	676.0	679.9
25°	604.2	618.9	643.5	661.2	667.1
27.5°	581.4	599.3	625.8	647.5	652.4
30°	557.8	576.5	607.1	630.7	636.6
32.5°	533.2	554.9	587.3	614.0	621.9
35°	508.6	530.3	565.7	595.4	604.2
37.5°	480.1	505.7	545.1	575.7	586.3
40°	455.6	480.1	522.5	555.9	566.7
42.5°	428.0	454.6	498.9	535.2	548.0
45°	400.4	429.0	476.2	514.6	527.4
47.5°	374.8	403.3	452.6	493.0	505.7
50°	348.3	377.8	429.0	470.3	483.1
52.5°	319.8	352.2	405.3	446.7	461.5
55°	294.2	326.6	379.7	423.1	437.9
57.5°	267.6	301.1	356.2	397.5	411.4
60°	243.0	275.5	329.7	369.9	385.7
62.5°	216.4	249.8	303.0	342.4	357.2
65°	191.8	224.3	276.5	314.9	328.6
67.5°	167.2	199.8	248.8	285.4	301.1
70°	142.6	175.2	220.3	255.9	269.6
72.5°	121.1	149.6	192.8	225.3	238.1
75°	97.5	126.0	162.3	190.8	196.7
77.5°	75.7	101.4	131.9	144.6	146.7
80°	56.0	75.7	96.5	99.4	99.4
82.5°	37.3	52.1	60.0	60.9	60.0
85°	22.6	27.5	28.5	24.6	22.6
87.5°	7.8	7.8	4.9	2.9	1.0
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)