

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: P880733

Luminaire Tested: **22CZ2-39VHE-RDP-B2750-W2D-3000K**

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: P880733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474998)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39VHE-RDP-B2750-W2D-3000K
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

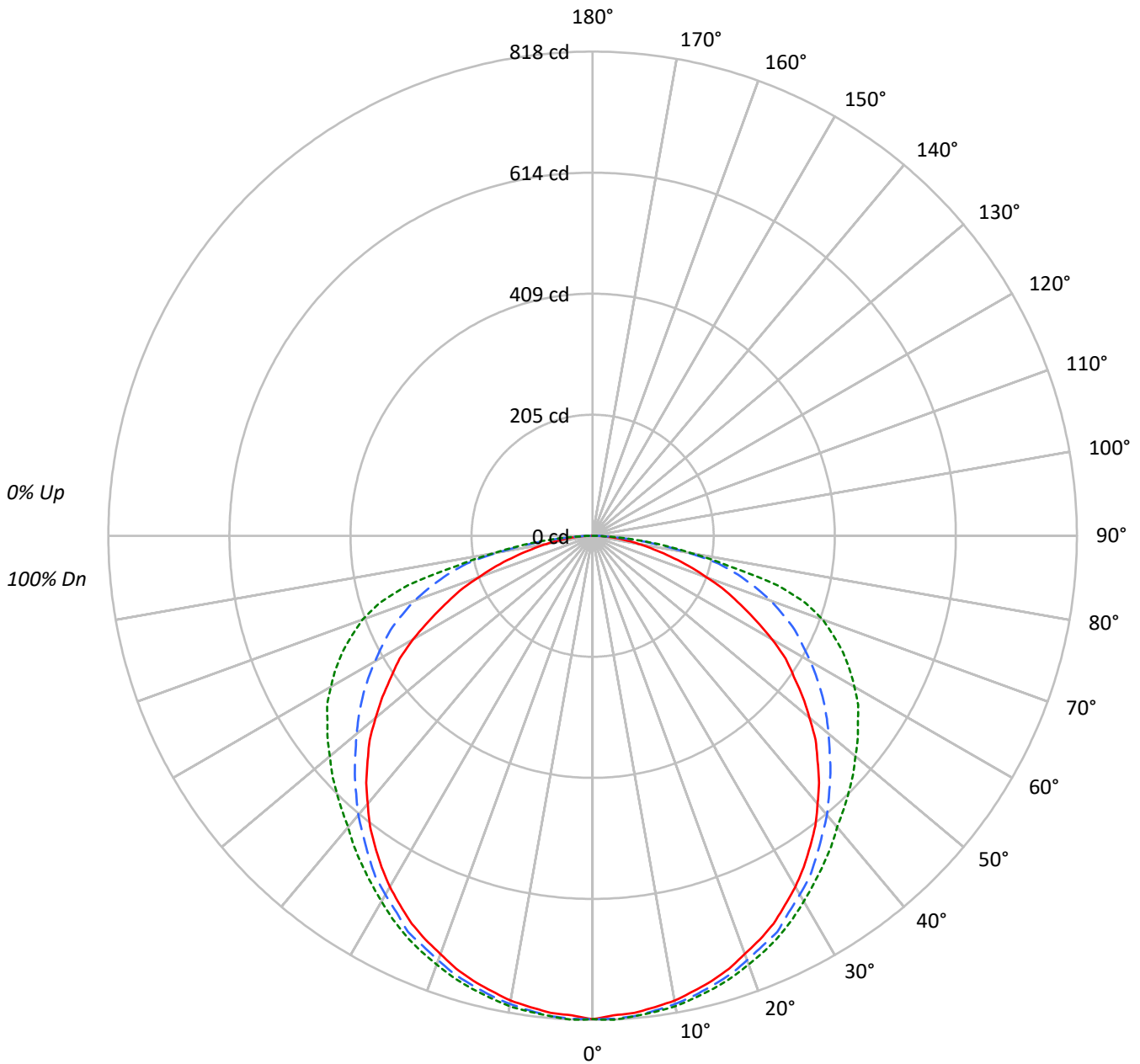
Lumens per Lamp: N/A
Luminaire Lumens: 2600.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82																			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67																			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55																			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47																			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35																			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31																			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27																			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2317	2317	2317
5°	2304	2321	2321
10°	2298	2314	2326
15°	2287	2309	2326
20°	2270	2304	2328
25°	2264	2312	2336
30°	2244	2294	2338
35°	2219	2286	2352
40°	2190	2281	2380
45°	2157	2280	2455
50°	2111	2296	2558
55°	2053	2347	2706
60°	1986	2409	2898
65°	1848	2531	3134
70°	1697	2651	3428
75°	1490	2788	3544
80°	1281	2654	2784
85°	1123	1927	2116



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.0
10°-20°	221.8	8.5
20°-30°	338.4	13.0
30°-40°	413.2	15.9
40°-50°	441.8	17.0
50°-60°	426.5	16.4
60°-70°	367.1	14.1
70°-80°	248.4	9.6
80°-90°	65.5	2.5
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°	637.5	24.5
0°-40°	1050.7	40.4
0°-60°	1918.9	73.8
0°-90°	2600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	809	811	815	815	815	77
15°	778	780	786	790	792	220
25°	723	727	738	742	746	333
35°	641	646	660	673	679	401
45°	537	547	568	597	612	415
55°	415	428	474	522	547	372
65°	275	302	377	436	467	274
75°	136	180	254	306	323	146
85°	34	48	59	61	65	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.7	816.7	816.7	816.7	<i>816.7</i>
2.5°	<i>811.0</i>	<i>812.8</i>	<i>816.7</i>	<i>816.7</i>	<i>818.5</i>
5°	809.0	811.0	814.7	814.7	<i>814.7</i>
7.5°	803.2	805.2	809.0	811.0	<i>811.0</i>
10°	797.5	799.5	803.2	805.2	<i>807.2</i>
12.5°	788.0	789.8	795.5	799.5	<i>799.5</i>
15°	778.5	780.3	786.0	789.8	<i>791.8</i>
17.5°	766.8	770.8	776.5	780.3	<i>782.3</i>
20°	751.7	755.5	763.0	769.0	<i>770.8</i>
22.5°	738.3	742.2	749.8	755.5	<i>759.3</i>
25°	723.0	726.8	738.3	742.2	<i>746.0</i>
27.5°	703.8	707.8	717.3	724.8	<i>730.5</i>
30°	684.8	688.6	700.0	709.8	<i>713.5</i>
32.5°	663.6	669.3	682.8	690.5	<i>696.1</i>
35°	640.6	646.4	659.8	673.1	<i>679.0</i>
37.5°	617.8	623.6	636.9	654.1	<i>661.8</i>
40°	591.1	598.6	615.9	638.8	<i>642.6</i>
42.5°	566.1	575.6	591.1	617.8	<i>627.3</i>
45°	537.4	546.9	568.1	596.8	<i>611.9</i>
47.5°	510.7	520.2	543.2	577.6	<i>596.8</i>
50°	478.2	491.5	520.2	560.4	<i>579.4</i>
52.5°	447.5	459.0	497.4	541.2	<i>564.4</i>
55°	415.0	428.5	474.4	522.2	<i>546.9</i>
57.5°	386.5	397.8	449.5	503.1	<i>531.7</i>
60°	350.0	365.3	424.5	481.9	<i>510.7</i>
62.5°	311.6	334.8	399.7	459.0	<i>489.5</i>
65°	275.3	302.1	377.0	436.0	<i>466.7</i>
67.5°	242.9	271.6	348.2	411.2	<i>440.0</i>
70°	204.6	241.1	319.5	380.7	<i>413.2</i>
72.5°	170.4	210.4	287.0	348.2	<i>377.0</i>
75°	135.9	179.9	254.3	306.0	<i>323.3</i>
77.5°	105.2	147.4	217.9	233.3	<i>235.3</i>
80°	78.4	116.7	162.4	164.4	<i>170.4</i>
82.5°	53.7	82.2	105.2	114.7	<i>116.7</i>
85°	34.5	47.9	59.2	61.2	<i>65.0</i>
87.5°	15.5	17.2	21.0	19.2	<i>19.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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







(END OF REPORT)