

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: P881157

Luminaire Tested: **24CZ2-30VHE-RDP-UNV-B50**

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: P881157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30VHE-RDP-UNV-B50
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

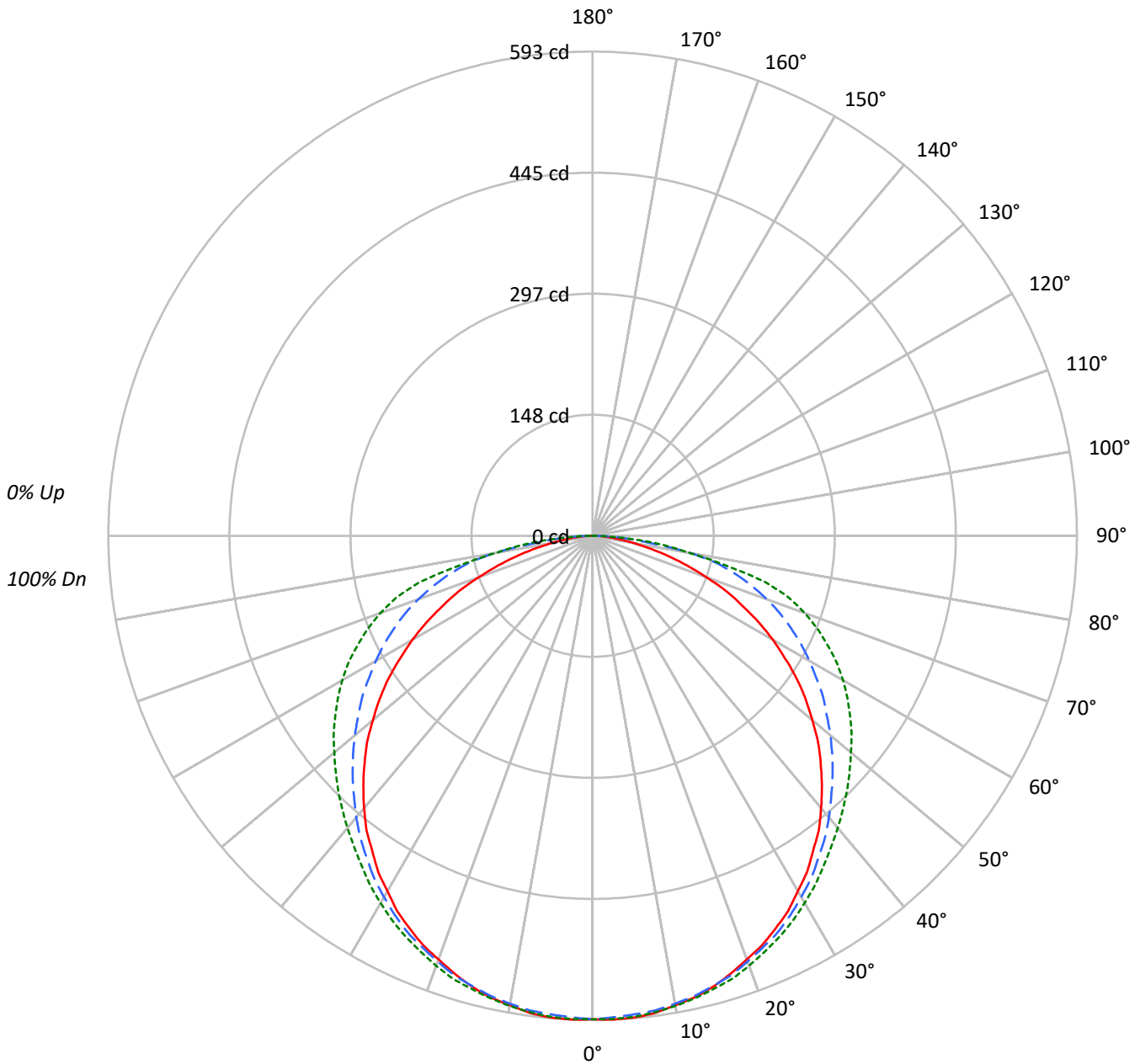
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1883.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	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°	836	836	836
5°	839	834	838
10°	837	834	838
15°	835	834	839
20°	829	833	842
25°	826	835	844
30°	819	833	846
35°	811	830	850
40°	802	829	860
45°	789	830	880
50°	771	835	907
55°	751	848	947
60°	720	865	999
65°	674	895	1061
70°	613	937	1141
75°	519	988	1192
80°	410	994	964
85°	303	756	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	3.0
10°-20°	161.7	8.6
20°-30°	247.2	13.1
30°-40°	302.2	16.0
40°-50°	322.1	17.1
50°-60°	308.0	16.4
60°-70°	260.9	13.9
70°-80°	175.3	9.3
80°-90°	49.5	2.6
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°	465.1	24.7
0°-40°	767.2	40.7
0°-60°	1397.3	74.2
0°-90°	1883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	592	591	588	591	591	56
15°	572	572	571	575	574	161
25°	530	532	536	541	542	245
35°	471	474	482	491	493	295
45°	395	402	416	433	441	305
55°	305	317	345	372	385	272
65°	202	222	268	304	318	200
75°	95	130	181	212	219	102
85°	19	38	47	50	52	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.2	592.2	592.2	592.2	592.2
2.5°	593.1	593.1	590.3	592.2	592.2
5°	592.2	591.3	588.4	591.3	591.3
7.5°	589.4	588.4	586.5	589.4	588.4
10°	583.8	583.8	581.9	584.7	584.7
12.5°	579.1	578.1	577.2	581.0	580.1
15°	571.6	571.6	570.7	575.3	574.4
17.5°	562.3	563.2	564.2	567.9	568.8
20°	552.0	553.9	554.8	560.4	560.4
22.5°	542.7	543.6	545.5	551.1	551.1
25°	530.5	532.4	536.1	540.7	541.7
27.5°	518.3	519.3	524.0	530.5	531.4
30°	502.4	505.3	510.9	518.3	519.3
32.5°	488.5	491.2	497.8	505.3	507.2
35°	470.7	474.4	481.9	491.2	493.1
37.5°	454.8	457.6	467.0	477.3	480.0
40°	435.3	440.8	450.2	462.3	467.0
42.5°	415.6	421.3	432.5	448.3	453.8
45°	395.1	401.7	415.6	433.4	440.8
47.5°	374.6	382.1	397.9	418.4	426.8
50°	351.1	360.5	380.1	403.5	412.9
52.5°	328.8	340.0	361.4	387.6	399.7
55°	305.3	316.6	344.7	371.7	384.8
57.5°	279.3	294.1	325.0	355.9	369.8
60°	255.0	269.0	306.4	340.0	354.0
62.5°	228.8	247.5	287.7	323.1	337.2
65°	201.7	222.4	268.0	303.5	317.6
67.5°	177.5	199.9	248.4	283.9	297.9
70°	148.5	176.5	227.0	262.4	276.4
72.5°	121.4	152.2	204.6	239.1	252.2
75°	95.2	129.8	181.2	212.0	218.6
77.5°	71.0	107.3	156.9	170.0	165.4
80°	50.4	86.0	122.3	115.7	118.6
82.5°	32.7	65.4	75.7	86.0	88.6
85°	18.7	38.3	46.7	50.4	52.4
87.5°	8.4	14.0	18.7	18.7	17.8
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)