

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: P881155

Luminaire Tested: **24CZ2-30VHE-RDP-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: P881155
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-B35
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

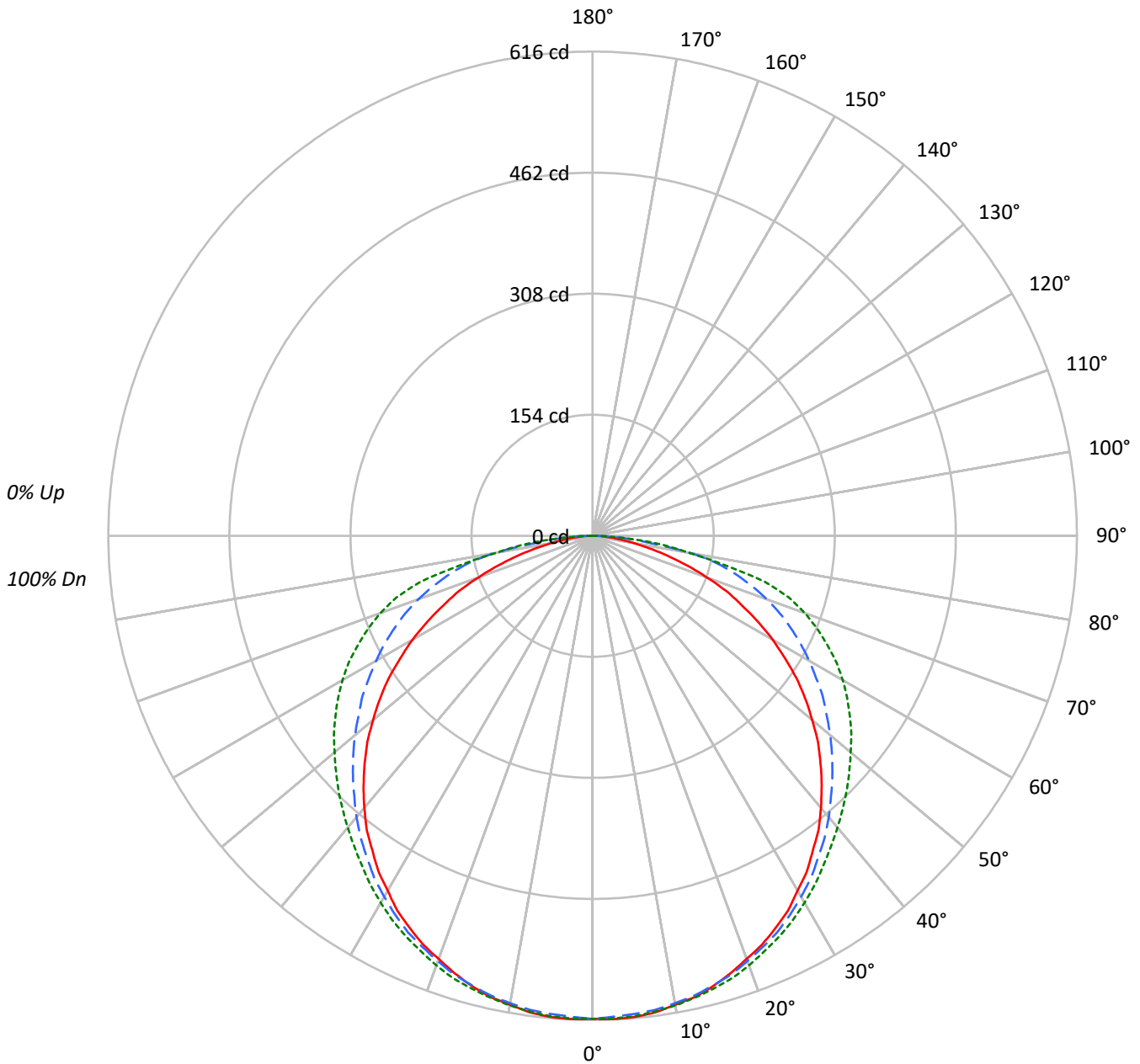
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1954.0 lumens
Efficiency: N/A
Efficacy: 85.0 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

TEST NUMBER: P881155
CATALOG NUMBER: 24CZ2-30VHE-RDP-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P881155

CATALOG NUMBER: 24CZ2-30VHE-RDP-UNV-B35

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	67	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°	867	867	867
5°	871	865	869
10°	868	865	870
15°	867	865	871
20°	860	865	874
25°	857	866	875
30°	850	864	878
35°	841	862	882
40°	832	861	893
45°	818	861	913
50°	800	866	941
55°	780	880	983
60°	747	897	1037
65°	699	929	1100
70°	636	972	1184
75°	539	1026	1237
80°	425	1031	1000
85°	314	785	879



TEST NUMBER: P881155

CATALOG NUMBER: 24CZ2-30VHE-RDP-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	3.0
10°-20°	167.8	8.6
20°-30°	256.5	13.1
30°-40°	313.6	16.0
40°-50°	334.2	17.1
50°-60°	319.6	16.4
60°-70°	270.7	13.9
70°-80°	182.0	9.3
80°-90°	51.3	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°	482.6	24.7
0°-40°	796.2	40.7
0°-60°	1450.0	74.2
0°-90°	1954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	614	614	611	614	614	58
15°	593	593	592	597	596	167
25°	550	552	556	561	562	254
35°	488	492	500	510	512	306
45°	410	417	431	450	457	316
55°	317	328	358	386	399	282
65°	209	231	278	315	330	208
75°	99	135	188	220	227	106
85°	19	40	48	52	54	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	614.5	614.5	614.5	614.5	614.5
2.5°	615.5	615.5	612.5	614.5	614.5
5°	614.5	613.6	610.6	613.6	613.6
7.5°	611.6	610.6	608.6	611.6	610.6
10°	605.8	605.8	603.8	606.8	606.8
12.5°	600.9	599.9	599.0	602.9	601.9
15°	593.1	593.1	592.2	597.0	596.1
17.5°	583.5	584.4	585.5	589.3	590.3
20°	572.8	574.8	575.7	581.6	581.6
22.5°	563.1	564.1	566.1	571.8	571.8
25°	550.5	552.4	556.3	561.1	562.2
27.5°	537.9	538.9	543.7	550.5	551.5
30°	521.4	524.3	530.2	537.9	538.9
32.5°	506.9	509.7	516.6	524.3	526.3
35°	488.4	492.3	500.1	509.7	511.7
37.5°	472.0	474.8	484.6	495.3	498.1
40°	451.7	457.4	467.2	479.7	484.6
42.5°	431.3	437.2	448.8	465.2	470.9
45°	410.0	416.8	431.3	449.7	457.4
47.5°	388.7	396.5	412.9	434.2	442.9
50°	364.4	374.1	394.5	418.7	428.4
52.5°	341.2	352.8	375.1	402.2	414.8
55°	316.9	328.5	357.7	385.8	399.3
57.5°	289.8	305.2	337.3	369.3	383.8
60°	264.6	279.1	317.9	352.8	367.3
62.5°	237.5	256.9	298.5	335.3	349.9
65°	209.3	230.7	278.2	315.0	329.5
67.5°	184.2	207.5	257.8	294.6	309.1
70°	154.1	183.1	235.6	272.3	286.9
72.5°	126.0	158.0	212.3	248.2	261.7
75°	98.8	134.7	188.1	220.0	226.9
77.5°	73.7	111.4	162.8	176.4	171.6
80°	52.3	89.2	126.9	120.1	123.0
82.5°	34.0	67.9	78.6	89.2	92.0
85°	19.4	39.7	48.5	52.3	54.3
87.5°	8.7	14.6	19.4	19.4	18.5
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)