

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: P881154

Luminaire Tested: **24CZ2-30VHE-HRP-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: P881154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30VHE-HRP-UNV-B50
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

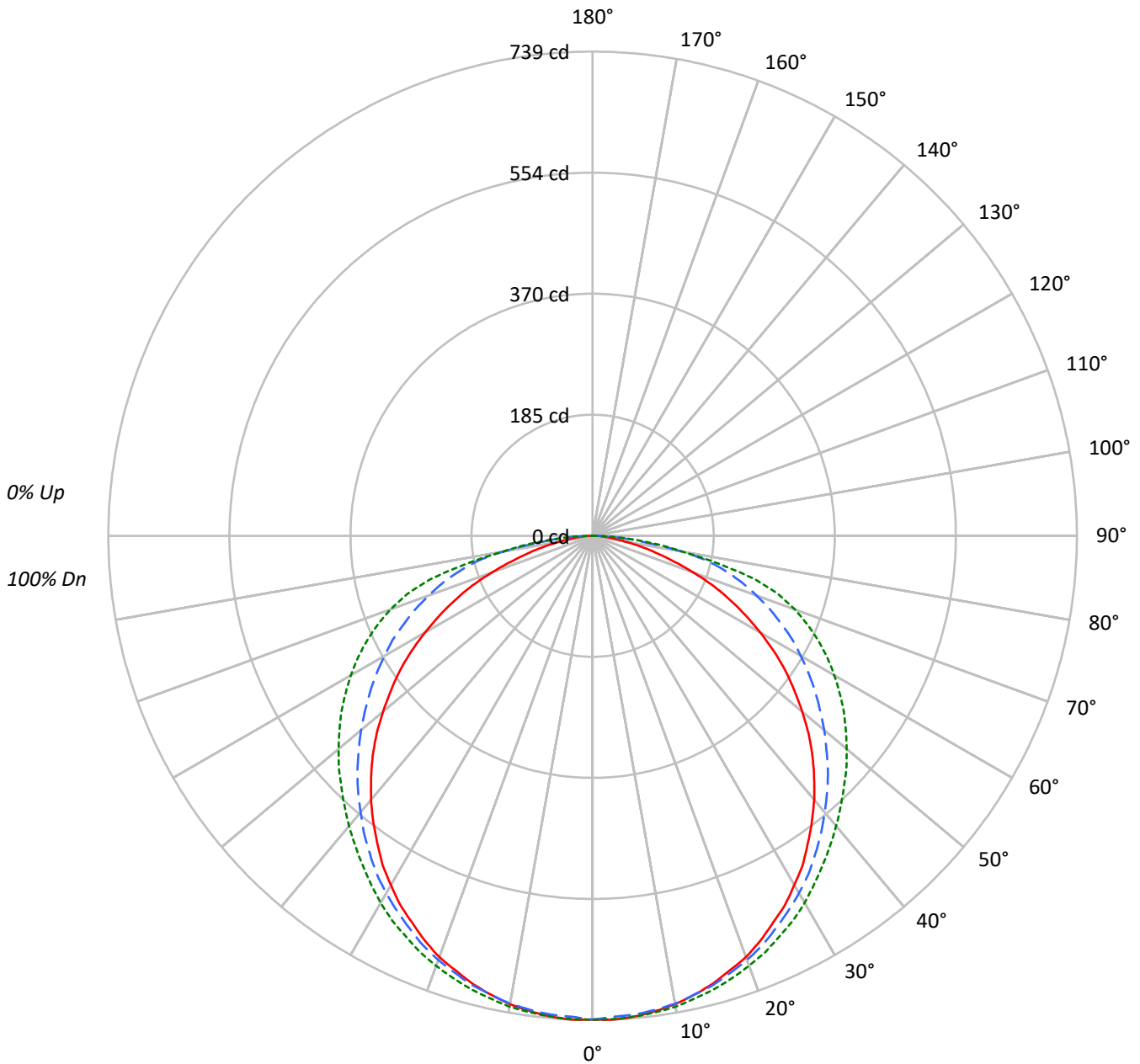
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2276.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
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: P881154
CATALOG NUMBER: 24CZ2-30VHE-HRP-UNV-B50

Luminous Intensity Polar Plot





TEST NUMBER: P881154

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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	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1042	1042	1042
5°	1044	1039	1044
10°	1041	1039	1046
15°	1034	1037	1047
20°	1028	1035	1049
25°	1015	1030	1051
30°	1003	1026	1054
35°	987	1021	1056
40°	969	1015	1065
45°	947	1014	1082
50°	916	1013	1111
55°	884	1020	1151
60°	834	1035	1202
65°	770	1060	1270
70°	672	1097	1353
75°	545	1153	1398
80°	403	1131	1131
85°	309	834	941



TEST NUMBER: P881154

CATALOG NUMBER: 24CZ2-30VHE-HRP-UNV-B50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.1
10°-20°	200.9	8.8
20°-30°	305.8	13.4
30°-40°	371.3	16.3
40°-50°	392.3	17.2
50°-60°	370.2	16.3
60°-70°	307.8	13.5
70°-80°	202.5	8.9
80°-90°	55.2	2.4
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°	576.7	25.3
0°-40°	948.0	41.7
0°-60°	1710.5	75.2
0°-90°	2276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	737	737	734	737	737	70
15°	708	709	710	717	717	200
25°	652	656	661	673	675	301
35°	573	579	593	608	613	358
45°	474	484	508	533	542	365
55°	359	374	414	454	468	320
65°	231	257	317	364	380	228
75°	100	146	212	251	256	108
85°	19	42	52	57	58	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.4	738.4	738.4	738.4	738.4
2.5°	739.4	738.4	734.6	738.4	738.4
5°	736.6	736.6	733.7	736.6	736.6
7.5°	731.8	731.8	729.8	733.7	733.7
10°	726.1	726.1	725.1	729.8	729.8
12.5°	717.5	718.3	717.5	723.1	723.1
15°	707.9	708.9	709.9	716.6	716.6
17.5°	695.6	697.5	699.4	707.0	707.9
20°	684.2	685.0	688.9	697.5	698.4
22.5°	669.0	671.8	676.6	685.0	688.0
25°	651.7	655.5	661.3	672.7	674.6
27.5°	635.5	638.4	646.0	658.4	662.3
30°	615.5	620.3	629.8	642.2	647.0
32.5°	596.4	601.2	612.7	625.9	629.8
35°	572.7	579.4	592.6	607.9	612.7
37.5°	549.8	556.4	572.7	589.8	595.6
40°	525.9	533.5	550.8	570.7	578.3
42.5°	500.2	510.7	529.8	551.7	560.3
45°	474.5	484.0	507.8	532.6	542.2
47.5°	446.9	458.4	484.0	513.6	525.1
50°	417.4	431.6	461.2	493.5	506.0
52.5°	387.9	404.0	437.4	473.5	486.9
55°	359.2	374.4	414.4	453.6	467.9
57.5°	327.8	346.9	390.7	432.6	446.9
60°	295.4	316.4	366.8	410.6	425.9
62.5°	263.0	286.8	343.9	387.9	404.0
65°	230.6	257.3	317.3	364.0	380.3
67.5°	199.1	228.7	292.5	339.2	355.4
70°	162.9	200.1	265.8	311.6	327.8
72.5°	129.6	172.5	240.0	283.1	297.3
75°	100.0	145.8	211.5	250.6	256.3
77.5°	73.3	119.1	182.0	195.2	196.3
80°	49.6	95.2	139.2	137.2	139.2
82.5°	32.4	71.5	87.6	98.1	99.1
85°	19.1	42.0	51.5	57.2	58.1
87.5°	9.5	14.3	18.1	19.1	20.9
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)