

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: P881152

Luminaire Tested: **24CZ2-30VHE-HRP-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: P881152
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-B35
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

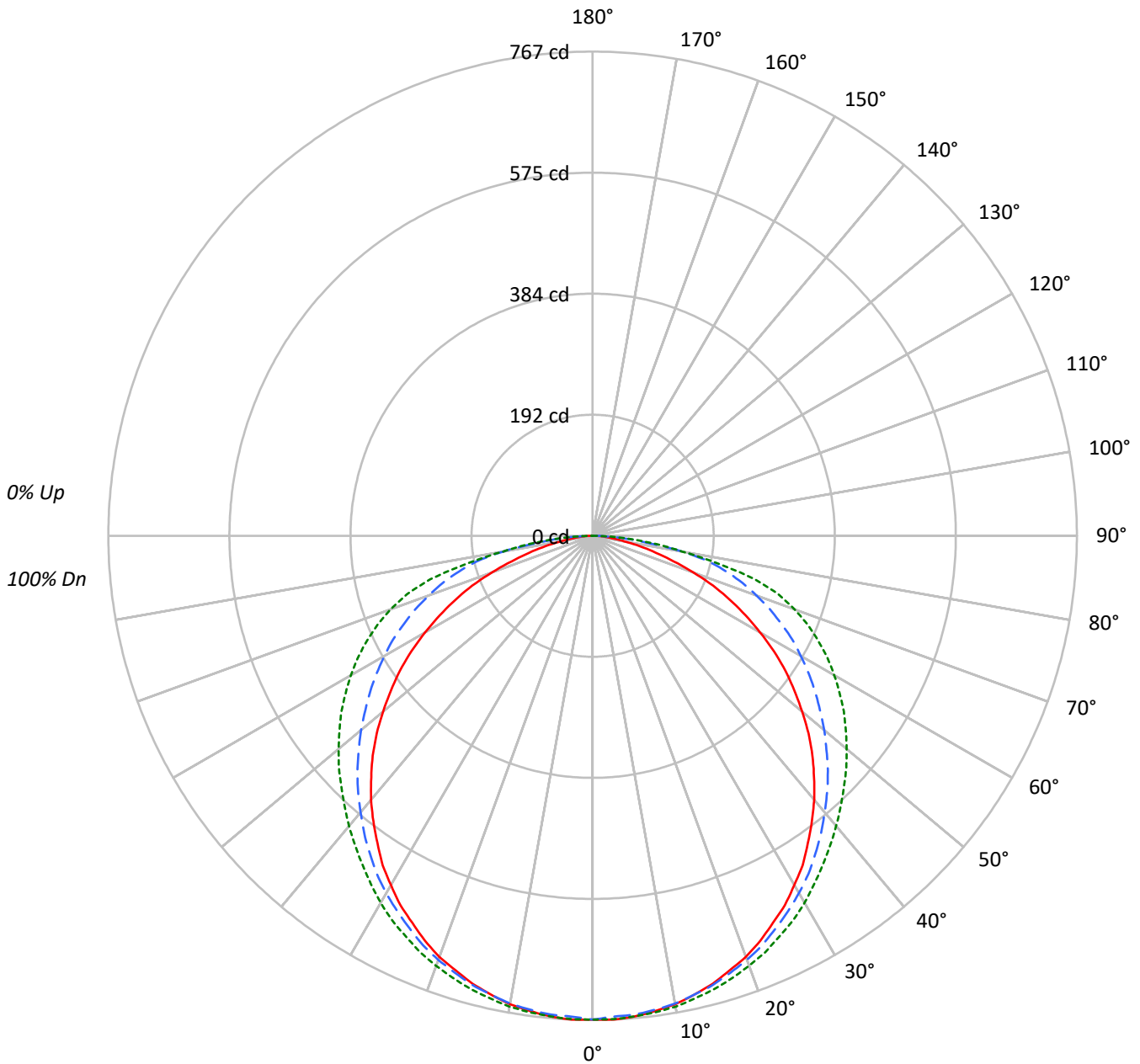
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2362.0 lumens
Efficiency: N/A
Efficacy: 102.7 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: P881152
CATALOG NUMBER: 24CZ2-30VHE-HRP-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P881152

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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°	1082	1082	1082
5°	1083	1079	1083
10°	1080	1078	1085
15°	1073	1076	1086
20°	1066	1074	1089
25°	1053	1069	1090
30°	1041	1065	1094
35°	1024	1060	1095
40°	1006	1053	1106
45°	983	1052	1123
50°	951	1051	1153
55°	917	1058	1195
60°	865	1075	1248
65°	799	1100	1318
70°	698	1138	1403
75°	566	1197	1450
80°	419	1174	1174
85°	321	865	976



TEST NUMBER: P881152

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	3.1
10°-20°	208.5	8.8
20°-30°	317.4	13.4
30°-40°	385.4	16.3
40°-50°	407.1	17.2
50°-60°	384.2	16.3
60°-70°	319.4	13.5
70°-80°	210.2	8.9
80°-90°	57.3	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°	598.4	25.3
0°-40°	983.8	41.7
0°-60°	1775.1	75.2
0°-90°	2362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	764	764	761	764	764	73
15°	735	736	737	744	744	207
25°	676	680	686	698	700	312
35°	594	601	615	631	636	372
45°	492	502	527	553	563	379
55°	373	389	430	471	486	332
65°	239	267	329	378	395	237
75°	104	151	220	260	266	112
85°	20	44	53	59	60	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.4	766.4	766.4	766.4	766.4
2.5°	767.3	766.4	762.4	766.4	766.4
5°	764.4	764.4	761.4	764.4	764.4
7.5°	759.4	759.4	757.4	761.4	761.4
10°	753.5	753.5	752.5	757.4	757.4
12.5°	744.6	745.5	744.6	750.5	750.5
15°	734.7	735.6	736.7	743.6	743.6
17.5°	721.9	723.9	725.8	733.7	734.7
20°	710.0	710.9	714.9	723.9	724.8
22.5°	694.2	697.2	702.1	710.9	714.0
25°	676.3	680.3	686.2	698.1	700.1
27.5°	659.5	662.6	670.4	683.3	687.3
30°	638.8	643.7	653.6	666.5	671.4
32.5°	619.0	624.0	635.8	649.6	653.6
35°	594.3	601.2	615.0	630.9	635.8
37.5°	570.5	577.5	594.3	612.1	618.1
40°	545.8	553.7	571.6	592.3	600.2
42.5°	519.1	530.0	549.8	572.5	581.5
45°	492.4	502.3	527.0	552.7	562.7
47.5°	463.8	475.7	502.3	533.0	544.9
50°	433.1	447.9	478.6	512.2	525.1
52.5°	402.5	419.3	453.9	491.4	505.3
55°	372.8	388.6	430.1	470.7	485.6
57.5°	340.1	360.0	405.4	448.9	463.8
60°	306.5	328.4	380.7	426.1	442.0
62.5°	272.9	297.7	356.9	402.5	419.3
65°	239.3	267.0	329.3	377.8	394.6
67.5°	206.6	237.3	303.6	352.0	368.8
70°	169.1	207.7	275.8	323.4	340.1
72.5°	134.5	179.0	249.1	293.8	308.6
75°	103.8	151.4	219.5	260.0	266.0
77.5°	76.1	123.6	188.9	202.6	203.7
80°	51.5	98.8	144.4	142.4	144.4
82.5°	33.6	74.2	90.9	101.8	102.8
85°	19.8	43.6	53.4	59.4	60.3
87.5°	9.8	14.8	18.8	19.8	21.7
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)