

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: P881164

Luminaire Tested: **24CZ2-30VHE-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: P881164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30VHE-UNV-B35
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

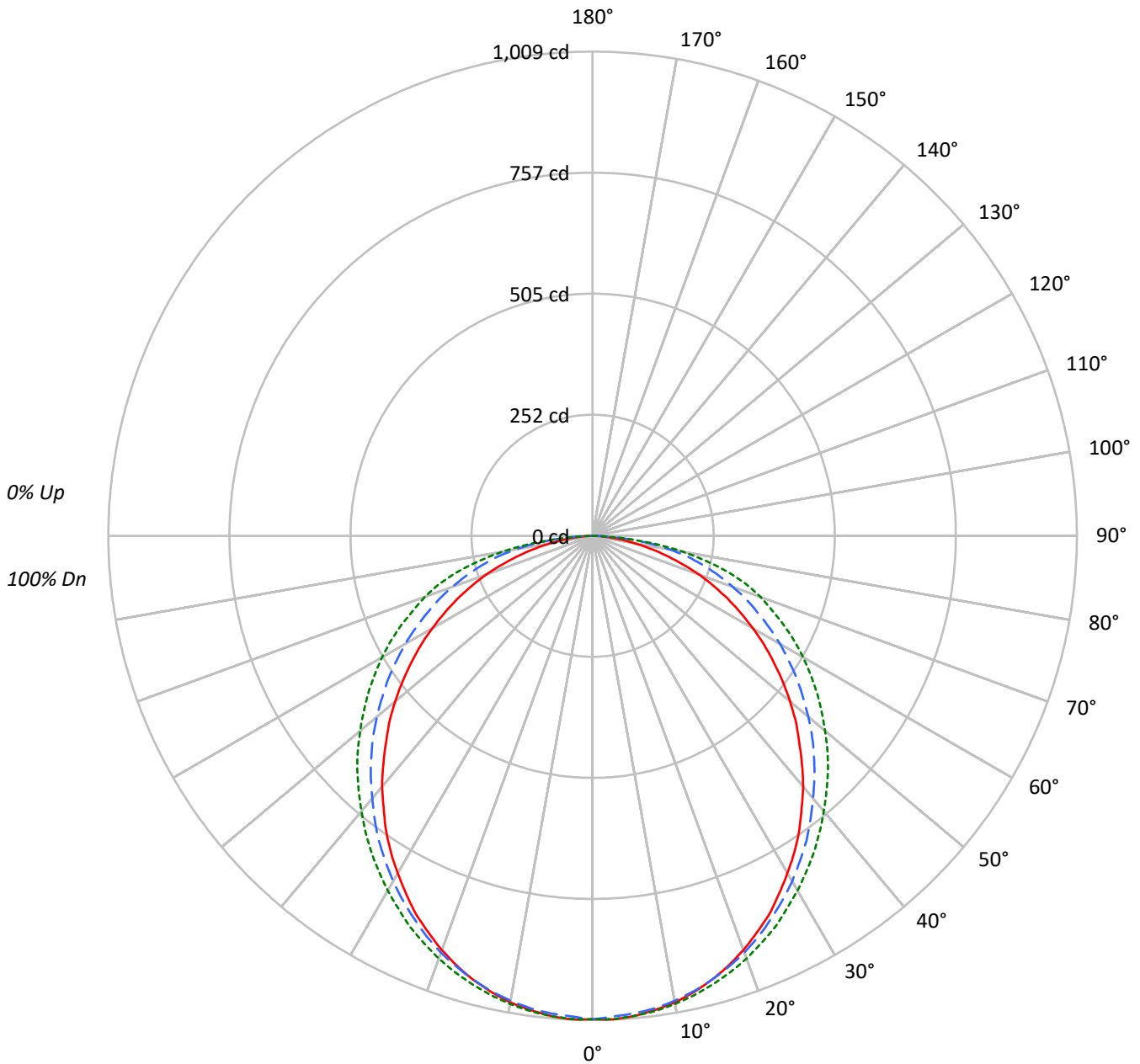
Lumens per Lamp: N/A
Luminaire Lumens: 2916.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68																			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57																			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42																			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37																			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1422	1422	1422
5°	1423	1416	1423
10°	1415	1410	1420
15°	1401	1400	1414
20°	1380	1388	1408
25°	1356	1371	1401
30°	1323	1355	1391
35°	1293	1338	1386
40°	1258	1316	1380
45°	1215	1302	1384
50°	1178	1288	1388
55°	1135	1279	1404
60°	1088	1273	1430
65°	1037	1268	1466
70°	976	1281	1534
75°	858	1308	1595
80°	716	1317	1539
85°	512	1129	1143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	3.3
10°-20°	271.3	9.3
20°-30°	407.0	14.0
30°-40°	486.0	16.7
40°-50°	503.4	17.3
50°-60°	463.4	15.9
60°-70°	373.8	12.8
70°-80°	244.2	8.4
80°-90°	71.6	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°	773.6	26.5
0°-40°	1259.6	43.2
0°-60°	2226.4	76.3
0°-90°	2916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1004	1003	999	1005	1004	95
15°	959	959	958	968	968	270
25°	871	872	880	896	900	400
35°	750	757	776	798	804	469
45°	609	624	652	682	694	470
55°	461	481	520	558	570	413
65°	310	332	380	423	439	307
75°	157	187	240	281	292	168
85°	32	55	70	74	71	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.6	1007.6	1007.6	1007.6	1007.6
2.5°	1009.0	1007.6	1002.5	1008.6	1008.1
5°	1004.3	1003.4	999.2	1004.8	1004.3
7.5°	996.8	996.4	993.1	999.2	999.2
10°	987.4	986.5	984.1	991.2	990.7
12.5°	974.2	973.8	972.4	980.8	980.4
15°	958.6	958.6	958.2	967.7	967.7
17.5°	939.8	940.3	942.2	953.0	953.5
20°	918.7	920.5	924.3	936.5	937.5
22.5°	894.6	898.3	903.5	917.2	918.7
25°	870.6	872.5	880.5	896.5	899.7
27.5°	841.3	846.1	856.5	872.9	876.2
30°	811.7	818.3	831.5	848.5	853.7
32.5°	782.4	788.2	803.7	823.0	829.1
35°	750.5	757.0	776.3	797.6	804.2
37.5°	715.1	725.4	745.8	770.2	777.3
40°	682.6	692.0	714.2	741.5	749.1
42.5°	645.4	657.1	684.1	711.8	721.2
45°	608.6	623.8	652.4	681.7	693.5
47.5°	574.3	586.5	620.5	653.4	663.7
50°	536.6	550.7	586.5	621.4	632.2
52.5°	499.4	516.3	552.5	589.3	601.1
55°	461.2	481.0	519.6	557.8	570.5
57.5°	424.4	444.3	484.3	524.8	538.0
60°	385.4	406.6	450.9	489.9	506.5
62.5°	347.7	368.8	415.5	457.9	473.4
65°	310.4	331.7	379.7	423.0	439.1
67.5°	271.9	294.9	346.3	388.2	403.7
70°	236.5	258.6	310.4	355.2	371.7
72.5°	195.9	222.4	275.1	319.4	335.0
75°	157.4	187.0	239.8	281.3	292.5
77.5°	121.5	151.3	203.9	235.1	242.1
80°	88.1	118.2	162.1	183.7	189.4
82.5°	57.0	88.1	117.3	131.9	133.8
85°	31.6	54.7	69.7	73.9	70.6
87.5°	11.3	20.7	20.2	16.5	13.2
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)