

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: P881169

Luminaire Tested: **24CZ2-35VHE-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: P881169
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: 24CZ2-35VHE-HRP-UNV-B50
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

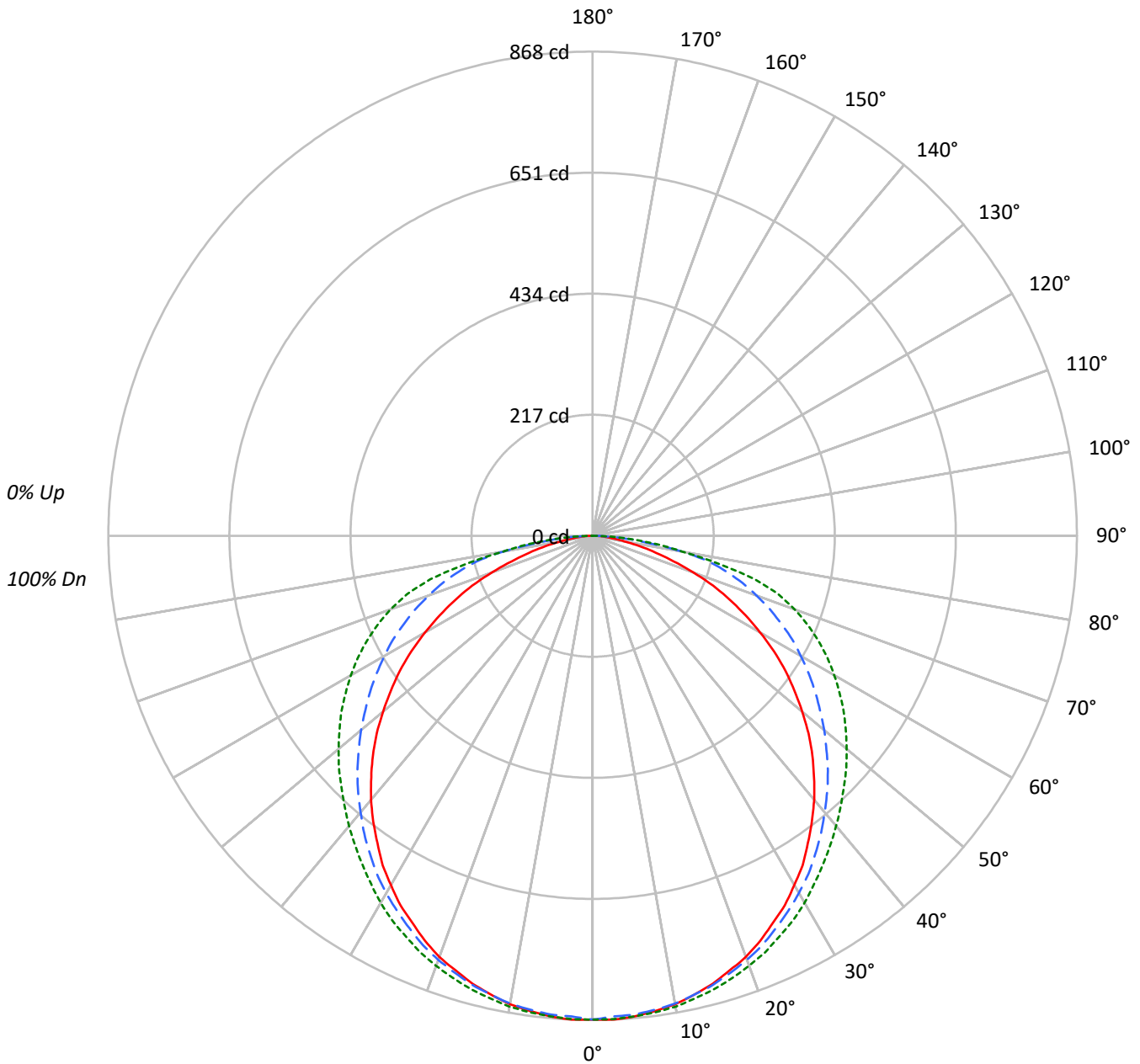
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2673.0 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): 27
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	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°	1224	1224	1224
5°	1225	1221	1225
10°	1222	1220	1228
15°	1215	1218	1230
20°	1207	1215	1232
25°	1192	1209	1234
30°	1178	1205	1238
35°	1159	1199	1240
40°	1138	1192	1251
45°	1112	1190	1271
50°	1076	1189	1305
55°	1038	1198	1352
60°	979	1216	1412
65°	904	1245	1491
70°	790	1288	1588
75°	641	1355	1641
80°	473	1329	1329
85°	363	978	1106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	3.1
10°-20°	235.9	8.8
20°-30°	359.2	13.4
30°-40°	436.1	16.3
40°-50°	460.8	17.2
50°-60°	434.8	16.3
60°-70°	361.5	13.5
70°-80°	237.8	8.9
80°-90°	64.8	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°	677.2	25.3
0°-40°	1113.3	41.7
0°-60°	2008.9	75.2
0°-90°	2673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	865	865	862	865	865	82
15°	831	832	834	842	842	234
25°	765	770	777	790	792	353
35°	673	680	696	714	720	421
45°	557	568	596	626	637	429
55°	422	440	487	533	550	376
65°	271	302	373	428	447	268
75°	118	171	248	294	301	127
85°	22	49	60	67	68	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.3	867.3	867.3	867.3	867.3
2.5°	868.4	867.3	862.7	867.3	867.3
5°	865.0	865.0	861.6	865.0	865.0
7.5°	859.4	859.4	857.1	861.6	861.6
10°	852.7	852.7	851.6	857.1	857.1
12.5°	842.7	843.7	842.7	849.3	849.3
15°	831.4	832.5	833.7	841.6	841.6
17.5°	817.0	819.2	821.4	830.3	831.4
20°	803.5	804.5	809.0	819.2	820.3
22.5°	785.6	788.9	794.6	804.5	808.0
25°	765.3	769.9	776.6	790.0	792.3
27.5°	746.4	749.8	758.7	773.3	777.8
30°	722.9	728.5	739.6	754.2	759.8
32.5°	700.5	706.1	719.6	735.1	739.6
35°	672.6	680.4	696.0	713.9	719.6
37.5°	645.7	653.5	672.6	692.7	699.5
40°	617.7	626.6	646.9	670.3	679.2
42.5°	587.4	599.8	622.2	647.9	658.0
45°	557.2	568.5	596.4	625.5	636.7
47.5°	524.9	538.4	568.5	603.2	616.7
50°	490.2	506.9	541.7	579.6	594.3
52.5°	455.5	474.5	513.6	556.1	571.9
55°	421.9	439.7	486.7	532.7	549.5
57.5°	384.9	407.4	458.8	508.0	524.9
60°	346.9	371.6	430.8	482.2	500.2
62.5°	308.8	336.8	403.9	455.5	474.5
65°	270.8	302.2	372.7	427.5	446.6
67.5°	233.8	268.6	343.6	398.4	417.4
70°	191.4	235.0	312.1	366.0	384.9
72.5°	152.2	202.6	281.9	332.4	349.2
75°	117.5	171.3	248.4	294.3	301.0
77.5°	86.1	139.9	213.8	229.3	230.5
80°	58.2	111.8	163.5	161.1	163.5
82.5°	38.1	83.9	102.9	115.3	116.4
85°	22.4	49.3	60.4	67.2	68.3
87.5°	11.1	16.8	21.3	22.4	24.6
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)