

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: P881137

Luminaire Tested: **22CZ2-50VHE-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: P881137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-50VHE-HRP-UNV-B35
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

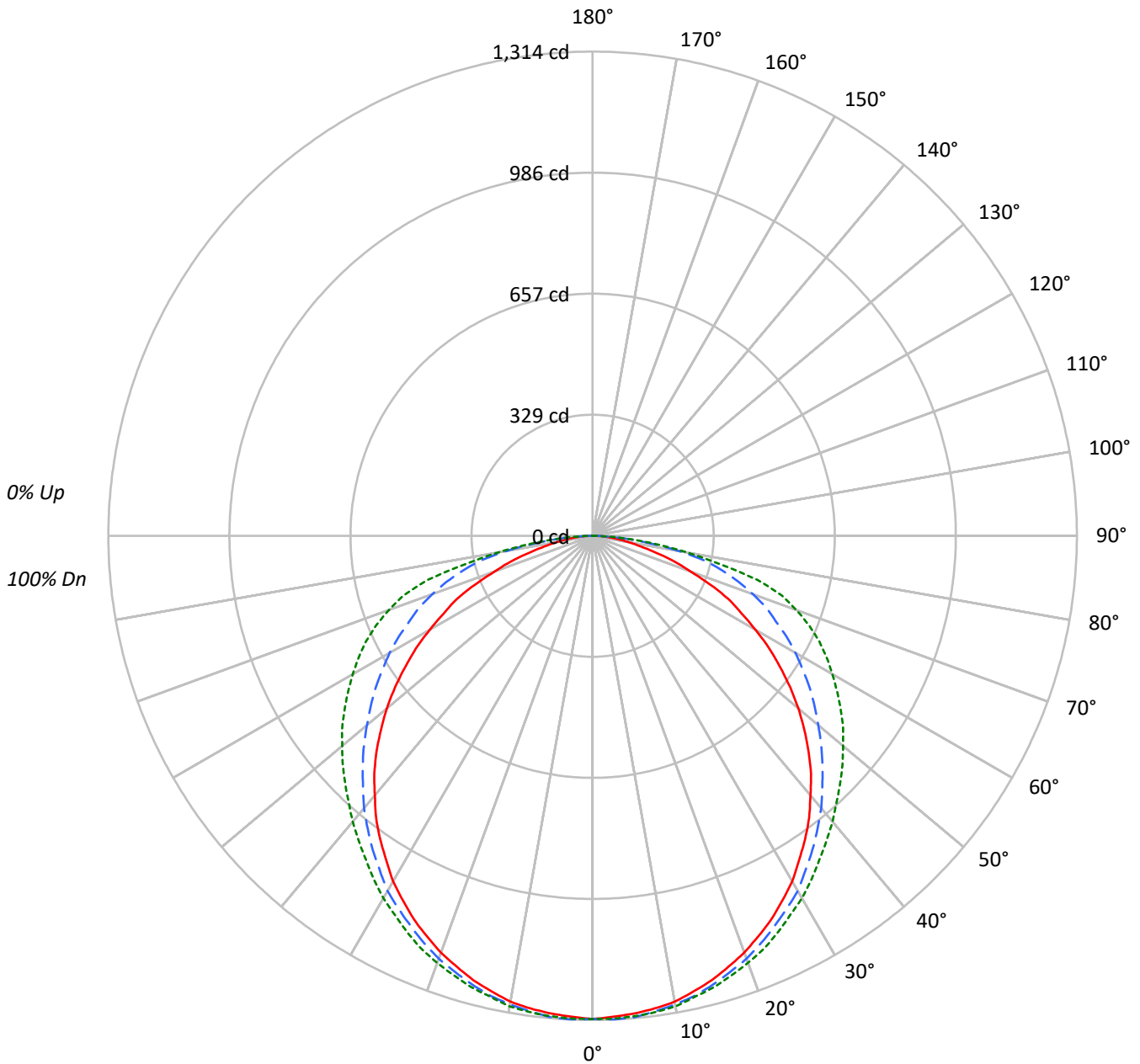
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3983.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 42
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	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	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	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	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	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3721	3721	3721
5°	3707	3736	3729
10°	3699	3721	3736
15°	3669	3705	3727
20°	3634	3688	3725
25°	3595	3658	3721
30°	3548	3647	3721
35°	3481	3603	3716
40°	3406	3574	3751
45°	3327	3539	3811
50°	3217	3527	3915
55°	3070	3555	4065
60°	2894	3607	4264
65°	2733	3677	4556
70°	2335	3836	4877
75°	1957	3996	5069
80°	1603	3860	4229
85°	1390	2862	3106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	3.1
10°-20°	355.6	8.9
20°-30°	538.9	13.5
30°-40°	650.7	16.3
40°-50°	683.7	17.2
50°-60°	643.3	16.2
60°-70°	536.4	13.5
70°-80°	355.4	8.9
80°-90°	94.7	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°	1018.8	25.6
0°-40°	1669.5	41.9
0°-60°	2996.5	75.2
0°-90°	3983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1302	1304	1312	1312	1309	124
15°	1249	1254	1261	1266	1269	352
25°	1148	1156	1168	1184	1188	529
35°	1005	1015	1040	1063	1073	628
45°	829	842	882	927	950	639
55°	620	648	719	791	822	555
65°	407	442	548	638	678	396
75°	178	249	364	440	462	194
85°	43	65	88	95	95	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1311.5	1311.5	1311.5	1311.5	1311.5
2.5°	1306.5	1309.0	1314.0	1314.0	1311.5
5°	1301.5	1304.0	1311.5	1311.5	1309.0
7.5°	1293.9	1296.7	1301.5	1306.5	1304.0
10°	1283.9	1286.4	1291.4	1296.7	1296.7
12.5°	1266.3	1268.8	1278.9	1281.6	1281.6
15°	1248.8	1253.8	1261.3	1266.3	1268.8
17.5°	1226.2	1231.2	1241.2	1251.3	1251.3
20°	1203.6	1208.6	1221.2	1231.2	1233.5
22.5°	1176.0	1183.5	1196.1	1208.6	1213.6
25°	1148.4	1155.9	1168.4	1183.5	1188.5
27.5°	1115.5	1123.0	1140.8	1158.4	1160.7
30°	1082.9	1090.4	1113.0	1128.0	1135.8
32.5°	1042.7	1052.7	1075.3	1097.9	1105.4
35°	1005.0	1015.1	1040.2	1063.0	1072.8
37.5°	964.9	974.7	1002.5	1030.4	1042.7
40°	919.4	932.2	964.9	995.0	1012.6
42.5°	877.0	889.6	922.2	962.4	979.9
45°	829.1	841.6	882.0	927.0	949.8
47.5°	778.9	793.9	841.6	897.1	919.4
50°	728.7	746.2	799.0	861.7	886.8
52.5°	675.7	698.6	758.8	826.8	856.7
55°	620.5	648.4	718.6	791.4	821.6
57.5°	567.8	593.1	675.7	753.8	786.4
60°	510.0	542.7	635.6	715.9	751.3
62.5°	454.8	490.0	593.1	678.5	715.9
65°	407.1	442.0	547.7	638.1	678.5
67.5°	344.1	392.1	510.0	595.4	635.6
70°	281.4	346.6	462.4	550.2	587.9
72.5°	233.7	296.4	414.7	502.5	537.7
75°	178.5	248.7	364.5	439.8	462.4
77.5°	133.3	206.1	311.5	349.4	351.7
80°	98.1	158.1	236.2	248.7	258.8
82.5°	68.0	110.4	153.4	168.2	173.4
85°	42.7	65.3	87.9	95.4	95.4
87.5°	22.6	25.1	30.1	30.1	30.1
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)