

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: P880778

Luminaire Tested: **22CZ2-50VHE-HRP-B2750-W2D-3000K**

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: P880778
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-B2750-W2D-3000K
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

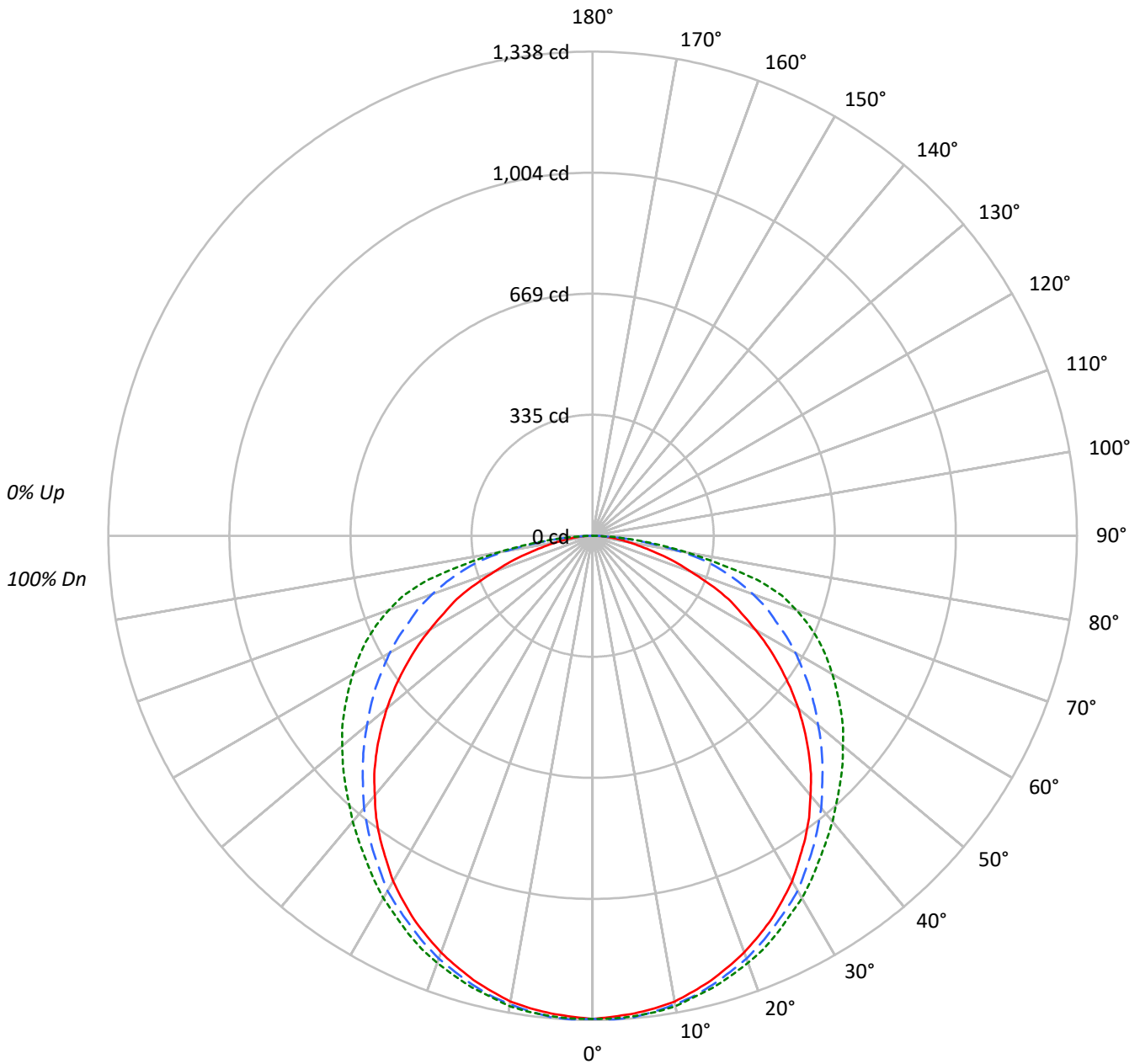
Lumens per Lamp: N/A
Luminaire Lumens: 4055.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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				20				20	
RC	80				70				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				100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82				82
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68				68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56				56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36				36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31				31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28				28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3789	3789	3789
5°	3774	3803	3796
10°	3766	3788	3804
15°	3735	3772	3795
20°	3700	3754	3792
25°	3660	3724	3788
30°	3612	3713	3789
35°	3544	3668	3783
40°	3467	3639	3819
45°	3387	3604	3880
50°	3275	3591	3985
55°	3125	3619	4138
60°	2947	3672	4340
65°	2783	3744	4637
70°	2377	3905	4965
75°	1992	4069	5160
80°	1632	3930	4306
85°	1413	2911	3161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	3.1
10°-20°	362.0	8.9
20°-30°	548.6	13.5
30°-40°	662.5	16.3
40°-50°	696.1	17.2
50°-60°	654.9	16.2
60°-70°	546.1	13.5
70°-80°	361.9	8.9
80°-90°	96.4	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°	1037.2	25.6
0°-40°	1699.7	41.9
0°-60°	3050.7	75.2
0°-90°	4055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1325	1328	1335	1335	1333	126
15°	1271	1276	1284	1289	1292	358
25°	1169	1177	1190	1205	1210	538
35°	1023	1033	1059	1082	1092	640
45°	844	857	898	944	967	650
55°	632	660	732	806	836	565
65°	414	450	558	650	691	403
75°	182	253	371	448	471	197
85°	43	66	89	97	97	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.2	1335.2	1335.2	1335.2	1335.2
2.5°	1330.1	1332.7	1337.8	1337.8	1335.2
5°	1325.0	1327.6	1335.2	1335.2	1332.7
7.5°	1317.3	1320.2	1325.0	1330.1	1327.6
10°	1307.1	1309.7	1314.8	1320.2	1320.2
12.5°	1289.2	1291.8	1302.0	1304.8	1304.8
15°	1271.3	1276.5	1284.1	1289.2	1291.8
17.5°	1248.3	1253.5	1263.7	1273.9	1273.9
20°	1225.3	1230.5	1243.2	1253.5	1255.8
22.5°	1197.2	1204.9	1217.7	1230.5	1235.6
25°	1169.1	1176.8	1189.6	1204.9	1210.0
27.5°	1135.6	1143.3	1161.5	1179.3	1181.6
30°	1102.4	1110.1	1133.1	1148.4	1156.3
32.5°	1061.5	1071.8	1094.8	1117.8	1125.4
35°	1023.2	1033.4	1059.0	1082.2	1092.2
37.5°	982.3	992.3	1020.7	1049.0	1061.5
40°	936.1	949.1	982.3	1013.0	1030.9
42.5°	892.9	905.7	938.9	979.8	997.7
45°	844.1	856.8	898.0	943.7	967.0
47.5°	793.0	808.3	856.8	913.3	936.1
50°	741.8	759.7	813.4	877.3	902.8
52.5°	687.9	711.2	772.5	841.8	872.2
55°	631.7	660.1	731.6	805.7	836.4
57.5°	578.0	603.9	687.9	767.4	800.6
60°	519.3	552.5	647.0	728.8	764.8
62.5°	463.0	498.8	603.9	690.7	728.8
65°	414.5	450.0	557.6	649.6	690.7
67.5°	350.4	399.2	519.3	606.2	647.0
70°	286.5	352.9	470.7	560.2	598.5
72.5°	237.9	301.8	422.2	511.6	547.4
75°	181.7	253.2	371.1	447.7	470.7
77.5°	135.7	209.8	317.1	355.7	358.0
80°	99.9	161.0	240.5	253.2	263.5
82.5°	69.3	112.4	156.1	171.2	176.6
85°	43.4	66.4	89.4	97.1	97.1
87.5°	23.0	25.6	30.7	30.7	30.7
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)