

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: P880777

Luminaire Tested: **22CZ2-50VHE-HRP-B2750-W2D-2700K**

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: P880777
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-2700K
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

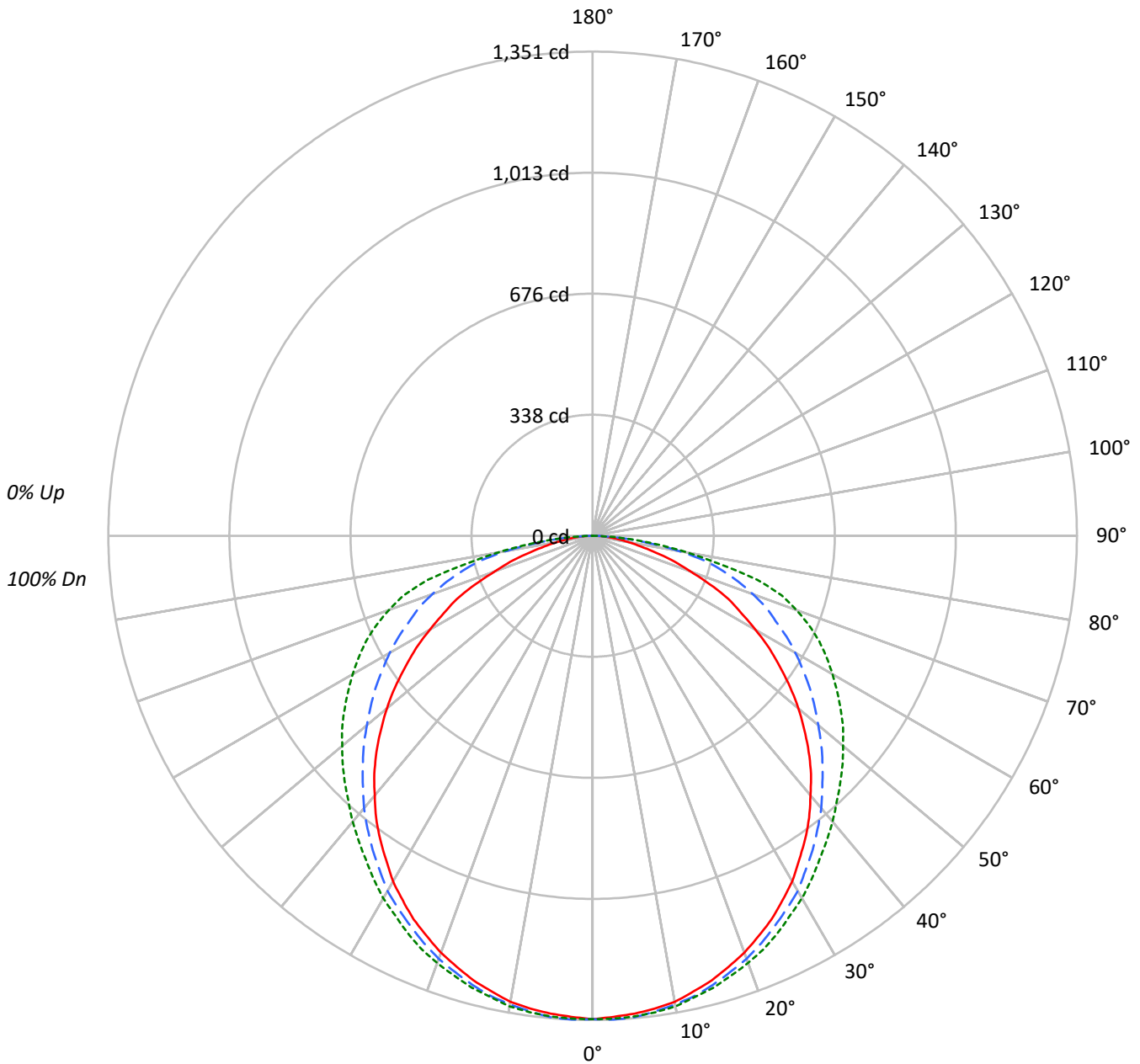
Lumens per Lamp: N/A
Luminaire Lumens: 4096.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P880777

CATALOG NUMBER: 22CZ2-50VHE-HRP-B2750-W2D-2700K

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°	3827	3827	3827
5°	3812	3842	3834
10°	3804	3827	3842
15°	3773	3810	3833
20°	3737	3792	3830
25°	3697	3762	3827
30°	3649	3750	3827
35°	3580	3705	3821
40°	3502	3676	3857
45°	3421	3640	3920
50°	3308	3627	4026
55°	3157	3656	4180
60°	2977	3709	4385
65°	2811	3781	4684
70°	2401	3945	5015
75°	2012	4109	5213
80°	1649	3969	4348
85°	1429	2940	3194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.1
10°-20°	365.7	8.9
20°-30°	554.2	13.5
30°-40°	669.2	16.3
40°-50°	703.1	17.2
50°-60°	661.6	16.2
60°-70°	551.6	13.5
70°-80°	365.5	8.9
80°-90°	97.4	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°	1047.7	25.6
0°-40°	1716.8	41.9
0°-60°	3081.5	75.2
0°-90°	4096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1338	1341	1349	1349	1346	127
15°	1284	1289	1297	1302	1305	362
25°	1181	1189	1202	1217	1222	544
35°	1034	1044	1070	1093	1103	646
45°	853	866	907	953	977	657
55°	638	667	739	814	845	571
65°	419	455	563	656	698	407
75°	184	256	375	452	476	199
85°	44	67	90	98	98	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.7	1348.7	1348.7	1348.7	1348.7
2.5°	1343.6	1346.1	1351.3	1351.3	1348.7
5°	1338.4	1341.0	1348.7	1348.7	1346.1
7.5°	1330.7	1333.5	1338.4	1343.6	1341.0
10°	1320.3	1322.9	1328.1	1333.5	1333.5
12.5°	1302.3	1304.8	1315.2	1318.0	1318.0
15°	1284.2	1289.4	1297.1	1302.3	1304.8
17.5°	1261.0	1266.1	1276.5	1286.8	1286.8
20°	1237.7	1242.9	1255.8	1266.1	1268.4
22.5°	1209.3	1217.1	1230.0	1242.9	1248.1
25°	1180.9	1188.7	1201.6	1217.1	1222.2
27.5°	1147.1	1154.9	1173.2	1191.3	1193.6
30°	1113.6	1121.3	1144.5	1160.0	1168.0
32.5°	1072.3	1082.6	1105.8	1129.1	1136.8
35°	1033.6	1043.9	1069.7	1093.2	1103.2
37.5°	992.3	1002.3	1031.0	1059.6	1072.3
40°	945.5	958.7	992.3	1023.2	1041.3
42.5°	901.9	914.8	948.4	989.7	1007.7
45°	852.6	865.5	907.1	953.3	976.8
47.5°	801.0	816.5	865.5	922.6	945.5
50°	749.4	767.4	821.6	886.2	912.0
52.5°	694.9	718.4	780.3	850.3	881.0
55°	638.1	666.7	739.0	813.9	844.9
57.5°	583.9	610.0	694.9	775.2	808.7
60°	524.5	558.1	653.6	736.2	772.6
62.5°	467.7	503.9	610.0	697.7	736.2
65°	418.7	454.6	563.2	656.2	697.7
67.5°	353.9	403.2	524.5	612.3	653.6
70°	289.4	356.5	475.5	565.8	604.5
72.5°	240.3	304.9	426.4	516.8	552.9
75°	183.5	255.8	374.8	452.2	475.5
77.5°	137.1	211.9	320.3	359.3	361.6
80°	100.9	162.6	242.9	255.8	266.1
82.5°	70.0	113.6	157.7	172.9	178.4
85°	43.9	67.1	90.3	98.1	98.1
87.5°	23.2	25.8	31.0	31.0	31.0
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)