

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: P880627

Luminaire Tested: **22CZ2-20VHE-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: P880627
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: 22CZ2-20VHE-HRP-B2750-W2D-2700K
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

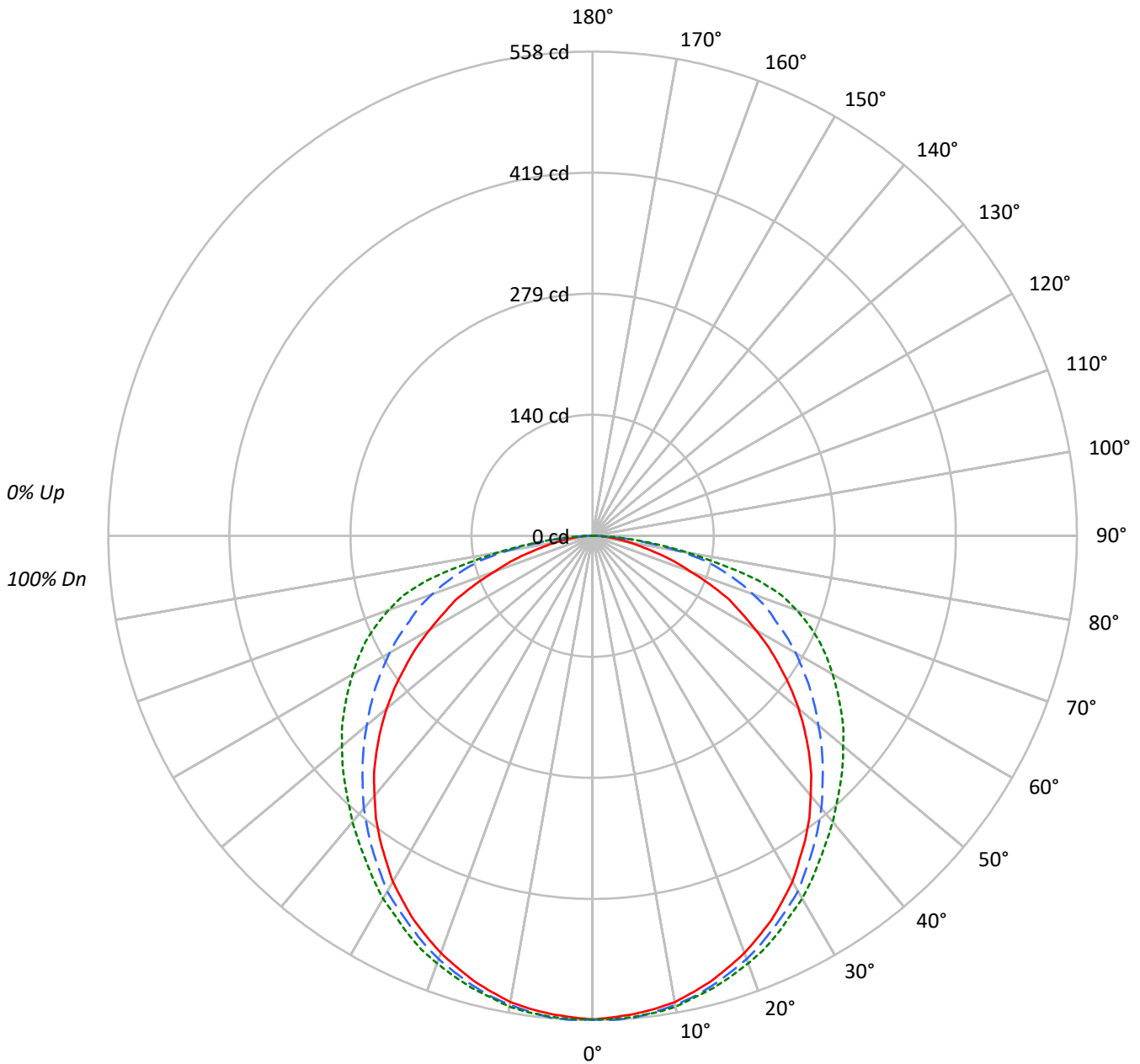
Lumens per Lamp: N/A
Luminaire Lumens: 1693.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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°	1582	1582	1582
5°	1576	1588	1585
10°	1572	1582	1588
15°	1559	1575	1584
20°	1545	1567	1583
25°	1528	1555	1582
30°	1508	1550	1582
35°	1480	1531	1580
40°	1448	1519	1594
45°	1414	1504	1620
50°	1367	1499	1664
55°	1305	1511	1728
60°	1230	1533	1812
65°	1162	1563	1936
70°	992	1630	2073
75°	832	1698	2154
80°	681	1641	1797
85°	589	1214	1319



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	3.1
10°-20°	151.1	8.9
20°-30°	229.1	13.5
30°-40°	276.6	16.3
40°-50°	290.6	17.2
50°-60°	273.4	16.2
60°-70°	228.0	13.5
70°-80°	151.1	8.9
80°-90°	40.2	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°	433.0	25.6
0°-40°	709.6	41.9
0°-60°	1273.7	75.2
0°-90°	1693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	553	554	558	558	556	53
15°	531	533	536	538	539	150
25°	488	491	497	503	505	225
35°	427	432	442	452	456	267
45°	352	358	375	394	404	271
55°	264	276	306	336	349	236
65°	173	188	233	271	288	168
75°	76	106	155	187	196	82
85°	18	28	37	40	40	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	557.5	557.5	557.5	557.5	557.5
2.5°	555.3	556.4	558.5	558.5	557.5
5°	553.2	554.3	557.5	557.5	556.4
7.5°	550.0	551.2	553.2	555.3	554.3
10°	545.7	546.8	548.9	551.2	551.2
12.5°	538.3	539.3	543.6	544.8	544.8
15°	530.8	532.9	536.1	538.3	539.3
17.5°	521.2	523.3	527.6	531.9	531.9
20°	511.6	513.7	519.1	523.3	524.3
22.5°	499.9	503.1	508.4	513.7	515.9
25°	488.1	491.3	496.7	503.1	505.2
27.5°	474.1	477.3	484.9	492.4	493.3
30°	460.3	463.5	473.1	479.5	482.8
32.5°	443.2	447.5	457.1	466.7	469.9
35°	427.2	431.5	442.1	451.8	456.0
37.5°	410.1	414.3	426.1	438.0	443.2
40°	390.8	396.3	410.1	422.9	430.4
42.5°	372.8	378.1	392.0	409.1	416.5
45°	352.4	357.7	374.9	394.0	403.7
47.5°	331.1	337.5	357.7	381.3	390.8
50°	309.7	317.2	339.6	366.3	376.9
52.5°	287.2	296.9	322.5	351.4	364.1
55°	263.7	275.6	305.5	336.4	349.2
57.5°	241.3	252.1	287.2	320.4	334.3
60°	216.8	230.7	270.1	304.3	319.3
62.5°	193.3	208.3	252.1	288.4	304.3
65°	173.1	187.9	232.8	271.2	288.4
67.5°	146.3	166.7	216.8	253.1	270.1
70°	119.6	147.3	196.5	233.9	249.9
72.5°	99.3	126.0	176.3	213.6	228.5
75°	75.9	105.7	154.9	186.9	196.5
77.5°	56.7	87.6	132.4	148.5	149.5
80°	41.7	67.2	100.4	105.7	110.0
82.5°	28.9	46.9	65.2	71.5	73.7
85°	18.1	27.7	37.3	40.5	40.5
87.5°	9.6	10.7	12.8	12.8	12.8
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)