

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: P880637

Luminaire Tested: **22CZ2-20VHE-S-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: P880637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20VHE-S-B2750-W2D-2700K
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

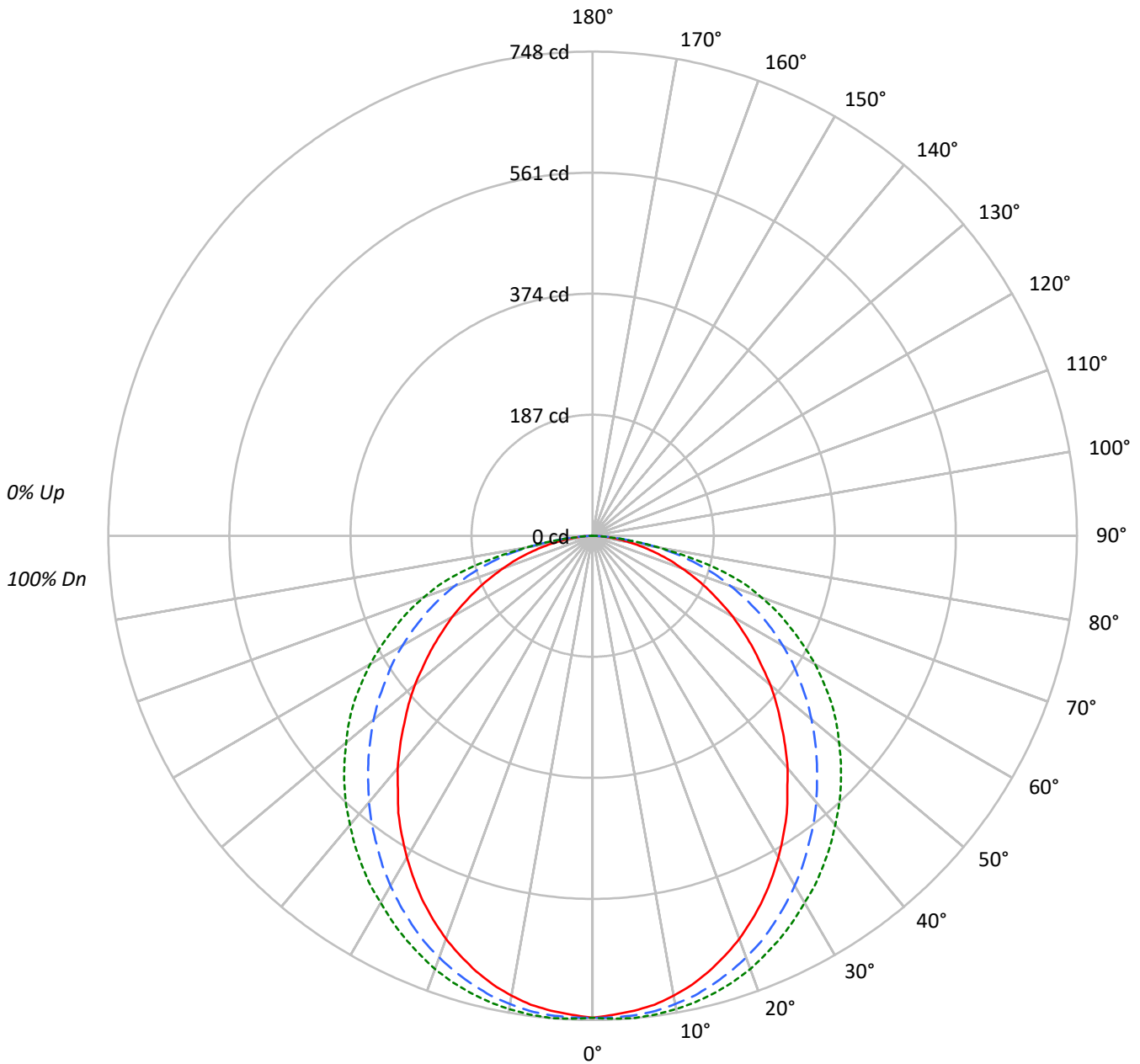
Lumens per Lamp: N/A
Luminaire Lumens: 2132.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P880637

CATALOG NUMBER: 22CZ2-20VHE-S-B2750-W2D-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P880637

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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2113	2113	2113
5°	2098	2118	2130
10°	2079	2117	2140
15°	2045	2107	2147
20°	2001	2093	2151
25°	1946	2072	2148
30°	1880	2046	2145
35°	1812	2015	2153
40°	1735	1991	2159
45°	1653	1965	2177
50°	1581	1948	2193
55°	1496	1932	2228
60°	1419	1924	2251
65°	1325	1909	2269
70°	1216	1880	2300
75°	1099	1830	2218
80°	941	1621	1670
85°	759	954	759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	3.3
10°-20°	201.9	9.5
20°-30°	303.2	14.2
30°-40°	361.6	17.0
40°-50°	373.9	17.5
50°-60°	343.7	16.1
60°-70°	273.6	12.8
70°-80°	167.2	7.8
80°-90°	36.3	1.7
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°	575.7	27.0
0°-40°	937.3	44.0
0°-60°	1654.9	77.6
0°-90°	2132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	737	739	744	747	748	70
15°	696	704	717	728	731	196
25°	621	636	662	680	686	286
35°	523	545	582	612	621	326
45°	412	441	490	529	542	318
55°	302	336	390	435	450	271
65°	197	231	284	324	338	195
75°	100	130	167	196	202	107
85°	23	28	29	25	23	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.7	744.7	744.7	744.7	744.7
2.5°	740.7	741.7	744.7	746.8	746.8
5°	736.6	738.7	743.7	746.8	747.8
7.5°	730.7	733.6	740.7	744.7	745.9
10°	721.5	725.6	734.7	740.7	742.7
12.5°	710.4	716.4	727.6	735.7	737.6
15°	696.3	704.3	717.4	727.6	730.7
17.5°	680.0	690.1	706.4	718.5	722.5
20°	662.7	672.9	693.2	707.3	712.3
22.5°	642.6	655.7	679.0	695.3	699.3
25°	621.4	636.5	661.8	680.0	686.1
27.5°	598.0	616.3	643.6	665.9	671.0
30°	573.7	593.0	624.3	648.6	654.7
32.5°	548.4	570.7	604.1	631.4	639.6
35°	523.1	545.4	581.8	612.3	621.4
37.5°	493.7	520.1	560.6	592.0	603.0
40°	468.5	493.7	537.4	571.8	582.9
42.5°	440.1	467.5	513.1	550.5	563.6
45°	411.8	441.2	489.7	529.3	542.4
47.5°	385.5	414.8	465.5	507.0	520.1
50°	358.2	388.6	441.2	483.7	496.8
52.5°	328.9	362.2	416.9	459.4	474.6
55°	302.5	335.9	390.5	435.1	450.3
57.5°	275.2	309.7	366.4	408.9	423.1
60°	250.0	283.3	339.1	380.4	396.7
62.5°	222.6	257.0	311.6	352.2	367.4
65°	197.3	230.7	284.3	323.9	337.9
67.5°	172.0	205.5	255.9	293.5	309.7
70°	146.6	180.2	226.6	263.1	277.2
72.5°	124.5	153.9	198.3	231.8	244.9
75°	100.2	129.6	166.9	196.2	202.3
77.5°	77.9	104.2	135.6	148.7	150.9
80°	57.6	77.9	99.2	102.2	102.2
82.5°	38.4	53.6	61.7	62.7	61.7
85°	23.3	28.3	29.3	25.3	23.3
87.5°	8.0	8.0	5.0	3.0	1.0
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)