

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: P842913

Luminaire Tested: **22CZ2-24HE-S-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-S-UNV-B50
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

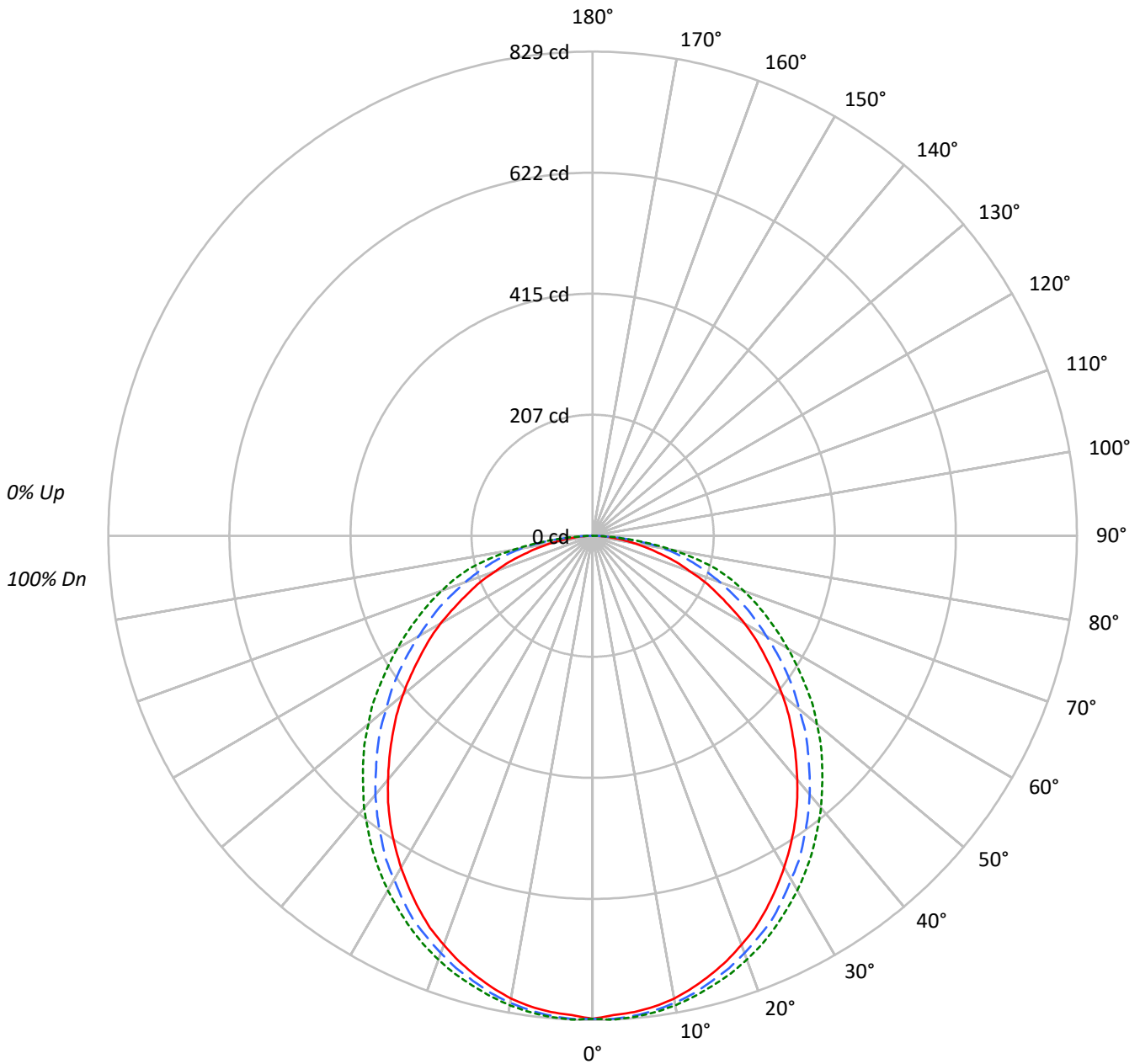
Lumens per Lamp: N/A
Luminaire Lumens: 2308.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): 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					
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								
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	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	69	60	54	66	59	53	64	57	52	61	56	52	49								
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43								
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37								
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30								
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27								
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2347	2347	2347
5°	2331	2349	2356
10°	2318	2340	2352
15°	2287	2319	2341
20°	2250	2296	2331
25°	2205	2272	2316
30°	2149	2226	2297
35°	2089	2186	2275
40°	2018	2142	2254
45°	1945	2092	2230
50°	1873	2035	2211
55°	1785	1998	2195
60°	1705	1949	2188
65°	1591	1938	2212
70°	1465	1921	2278
75°	1322	1948	2398
80°	1142	2007	2252
85°	947	1680	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	3.4
10°-20°	222.6	9.6
20°-30°	333.0	14.4
30°-40°	394.4	17.1
40°-50°	401.9	17.4
50°-60°	360.3	15.6
60°-70°	282.0	12.2
70°-80°	181.9	7.9
80°-90°	53.7	2.3
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°	633.8	27.5
0°-40°	1028.2	44.5
0°-60°	1790.4	77.6
0°-90°	2308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	818	820	825	826	827	78
15°	779	783	789	796	797	220
25°	704	711	726	736	740	324
35°	603	611	631	650	657	377
45°	485	495	521	548	556	374
55°	361	373	404	432	444	323
65°	237	251	289	317	330	235
75°	121	139	178	208	219	129
85°	29	40	52	52	52	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.0	827.0	827.0	827.0	827.0
2.5°	821.6	823.8	828.1	829.2	829.2
5°	818.5	820.5	824.8	826.0	827.0
7.5°	813.0	814.1	819.5	821.6	822.8
10°	804.5	806.5	812.0	815.2	816.3
12.5°	792.5	795.8	802.3	806.5	807.7
15°	778.6	782.9	789.3	795.8	796.9
17.5°	763.4	767.9	776.4	784.0	786.2
20°	745.2	750.6	760.2	768.9	772.1
22.5°	726.9	731.1	743.1	753.8	757.1
25°	704.3	710.8	725.8	735.5	739.8
27.5°	680.5	688.1	703.2	716.1	720.4
30°	655.9	663.4	679.5	695.7	701.0
32.5°	629.9	638.6	657.9	674.2	679.5
35°	603.1	610.6	631.1	650.4	656.9
37.5°	575.0	581.5	605.3	625.6	632.1
40°	544.9	553.5	578.3	602.0	608.4
42.5°	514.7	524.4	549.2	575.0	581.5
45°	484.6	495.3	521.2	548.2	555.7
47.5°	455.5	464.1	493.3	519.1	529.9
50°	424.2	432.9	461.0	490.0	500.8
52.5°	391.9	403.9	434.0	462.0	474.8
55°	360.8	372.6	403.9	431.9	443.7
57.5°	331.7	341.3	373.6	402.7	414.6
60°	300.4	309.1	343.5	374.8	385.6
62.5°	267.1	279.9	315.5	344.5	357.5
65°	237.0	250.8	288.6	316.6	329.5
67.5°	208.9	221.8	258.5	288.6	302.6
70°	176.6	193.9	231.5	261.6	274.6
72.5°	150.8	165.8	204.7	234.8	248.8
75°	120.6	138.9	177.7	207.9	218.7
77.5°	95.9	114.2	150.8	174.4	179.9
80°	69.9	88.2	122.8	134.6	137.8
82.5°	47.4	64.6	88.2	91.5	92.7
85°	29.1	39.8	51.6	51.6	51.6
87.5°	14.0	16.1	18.3	17.3	17.3
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)