

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: P842958

Luminaire Tested: **22CZ2-39HE-S-UNV-B50**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P842958
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: 22CZ2-39HE-S-UNV-B50
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

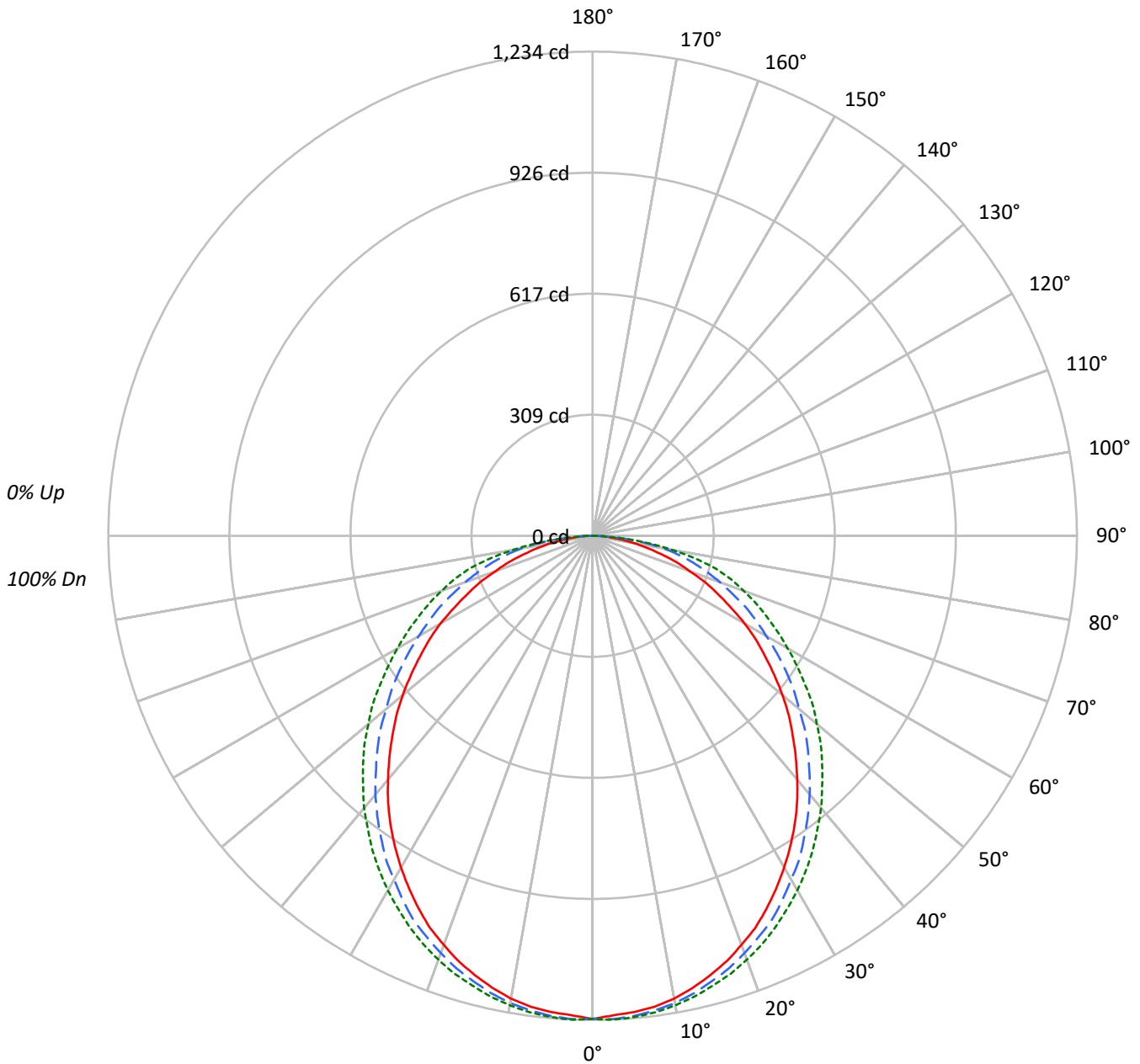
Lumens per Lamp: N/A
Luminaire Lumens: 3436.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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									
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	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°	3494	3494	3494
5°	3471	3498	3507
10°	3451	3483	3501
15°	3405	3452	3485
20°	3350	3417	3471
25°	3283	3383	3448
30°	3199	3315	3419
35°	3110	3254	3388
40°	3005	3189	3355
45°	2895	3114	3320
50°	2788	3029	3291
55°	2657	2974	3268
60°	2538	2902	3257
65°	2369	2885	3293
70°	2181	2860	3392
75°	1968	2900	3569
80°	1701	2987	3353
85°	1410	2504	2504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	3.4
10°-20°	331.4	9.6
20°-30°	495.8	14.4
30°-40°	587.2	17.1
40°-50°	598.4	17.4
50°-60°	536.3	15.6
60°-70°	419.9	12.2
70°-80°	270.8	7.9
80°-90°	80.0	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°	943.6	27.5
0°-40°	1530.7	44.5
0°-60°	2665.4	77.6
0°-90°	3436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1218	1222	1228	1230	1231	116
15°	1159	1166	1175	1185	1186	327
25°	1048	1058	1080	1095	1101	483
35°	898	909	940	968	978	561
45°	721	737	776	816	827	557
55°	537	555	601	643	660	482
65°	353	373	430	471	490	350
75°	180	207	264	310	326	193
85°	43	59	77	77	77	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.2	1231.2	1231.2	1231.2	1231.2
2.5°	1223.1	1226.4	1232.8	1234.5	1234.5
5°	1218.5	1221.6	1228.0	1229.7	1231.2
7.5°	1210.4	1211.9	1220.0	1223.1	1224.9
10°	1197.6	1200.7	1208.8	1213.7	1215.2
12.5°	1179.9	1184.7	1194.3	1200.7	1202.5
15°	1159.2	1165.6	1175.0	1184.7	1186.4
17.5°	1136.6	1143.1	1155.9	1167.1	1170.4
20°	1109.3	1117.4	1131.7	1144.7	1149.5
22.5°	1082.1	1088.5	1106.2	1122.3	1127.1
25°	1048.5	1058.1	1080.5	1095.0	1101.4
27.5°	1013.1	1024.3	1046.9	1066.1	1072.4
30°	976.4	987.6	1011.6	1035.7	1043.6
32.5°	937.8	950.7	979.5	1003.7	1011.6
35°	897.8	909.0	939.5	968.3	978.0
37.5°	856.1	865.7	901.1	931.4	941.1
40°	811.2	824.0	860.9	896.2	905.7
42.5°	766.2	780.7	817.6	856.1	865.7
45°	721.4	737.4	775.9	816.1	827.3
47.5°	678.1	690.9	734.3	772.8	788.8
50°	631.6	644.5	686.2	729.5	745.5
52.5°	583.5	601.2	646.0	687.8	706.9
55°	537.1	554.7	601.2	643.0	660.5
57.5°	493.8	508.1	556.2	599.5	617.3
60°	447.2	460.2	511.4	558.0	574.0
62.5°	397.6	416.7	469.7	512.9	532.3
65°	352.8	373.4	429.7	471.4	490.5
67.5°	311.0	330.2	384.8	429.7	450.5
70°	262.9	288.6	344.7	389.5	408.8
72.5°	224.5	246.9	304.7	349.5	370.4
75°	179.5	206.7	264.5	309.5	325.5
77.5°	142.8	170.0	224.5	259.7	267.8
80°	104.1	131.4	182.8	200.3	205.2
82.5°	70.5	96.2	131.4	136.2	137.9
85°	43.3	59.3	76.9	76.9	76.9
87.5°	20.9	24.0	27.2	25.7	25.7
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)