

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: P842865

Luminaire Tested: **14CZ2-39-RDP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-RDP-UNV-B50
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

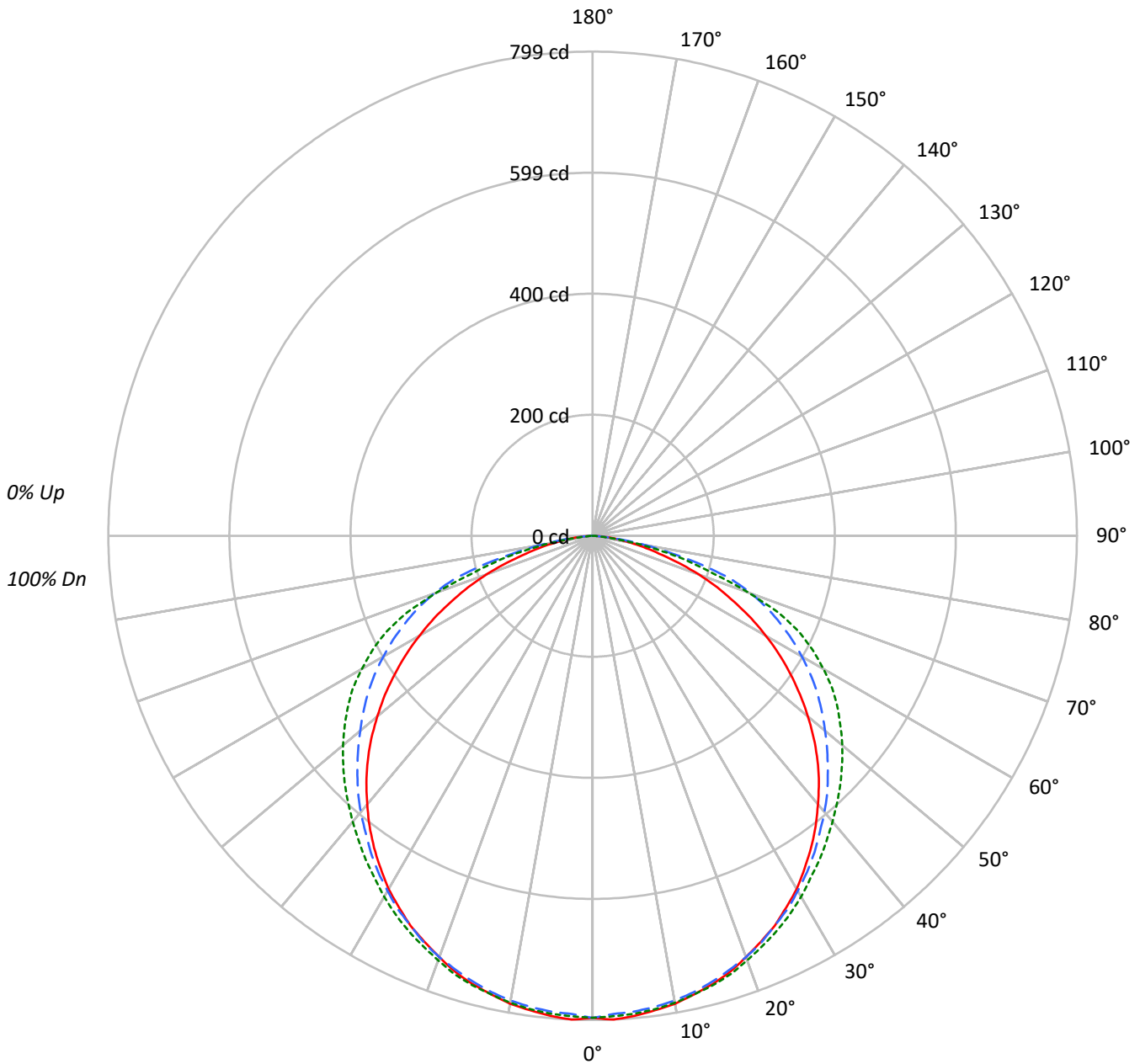
Lumens per Lamp: N/A
Luminaire Lumens: 2375.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84			
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	71	66	61	69	64	60	58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2245	2245	2245
5°	2254	2233	2244
10°	2248	2233	2243
15°	2238	2227	2243
20°	2222	2222	2239
25°	2212	2212	2240
30°	2194	2206	2242
35°	2166	2198	2249
40°	2131	2193	2269
45°	2095	2191	2309
50°	2036	2199	2361
55°	1962	2227	2427
60°	1863	2250	2481
65°	1721	2278	2514
70°	1531	2296	2249
75°	1235	2062	1799
80°	964	1448	1175
85°	664	421	301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	3.2
10°-20°	216.0	9.1
20°-30°	328.9	13.8
30°-40°	400.6	16.9
40°-50°	425.0	17.9
50°-60°	401.1	16.9
60°-70°	323.9	13.6
70°-80°	175.7	7.4
80°-90°	28.4	1.2
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°	620.2	26.1
0°-40°	1020.8	43.0
0°-60°	1847.0	77.8
0°-90°	2375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	796	794	788	794	792	76
15°	766	764	762	768	768	216
25°	710	708	710	718	719	327
35°	629	632	638	651	653	393
45°	525	532	549	569	578	404
55°	399	415	452	482	493	356
65°	258	289	341	369	376	255
75°	113	165	189	171	165	124
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.5	795.5	795.5	795.5	795.5
2.5°	799.1	795.5	789.8	795.5	793.6
5°	795.5	793.6	788.0	793.6	791.8
7.5°	789.8	789.8	784.3	788.0	788.0
10°	784.3	782.5	778.9	784.3	782.5
12.5°	775.0	773.2	771.4	776.8	775.0
15°	765.7	763.9	762.0	767.7	767.7
17.5°	754.5	752.7	750.9	758.4	758.4
20°	739.8	739.8	739.8	747.3	745.5
22.5°	725.0	725.0	726.8	734.3	732.5
25°	710.2	708.4	710.2	717.5	719.3
27.5°	691.6	693.4	695.2	702.7	704.5
30°	673.2	675.0	676.8	686.1	688.0
32.5°	650.9	654.5	658.2	669.3	669.3
35°	628.6	632.3	638.0	650.9	652.7
37.5°	604.5	608.2	615.7	630.5	634.1
40°	578.4	584.1	595.2	610.0	615.7
42.5°	552.5	560.0	573.0	589.5	597.0
45°	524.8	532.0	548.9	569.3	578.4
47.5°	495.0	504.3	524.8	550.7	558.2
50°	463.6	476.6	500.7	528.4	537.7
52.5°	432.0	446.8	476.6	506.1	515.5
55°	398.6	415.2	452.5	482.0	493.2
57.5°	365.2	383.9	426.4	458.0	469.1
60°	330.0	352.3	398.6	430.2	439.5
62.5°	294.8	320.7	370.9	402.3	409.8
65°	257.7	289.3	341.1	369.1	376.4
67.5°	222.5	259.5	311.6	331.8	331.8
70°	185.5	226.1	278.2	283.6	272.5
72.5°	148.4	194.8	241.1	220.7	211.4
75°	113.2	165.0	189.1	170.7	165.0
77.5°	85.2	133.4	133.4	122.3	118.6
80°	59.3	102.0	89.1	78.0	72.3
82.5°	38.9	57.5	46.4	37.0	31.6
85°	20.5	22.3	13.0	11.1	9.3
87.5°	7.5	3.6	1.8	3.6	1.8
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)