

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: P842953

Luminaire Tested: **22CZ2-39HE-RDP-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274731)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-RDP-UNV-B35
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

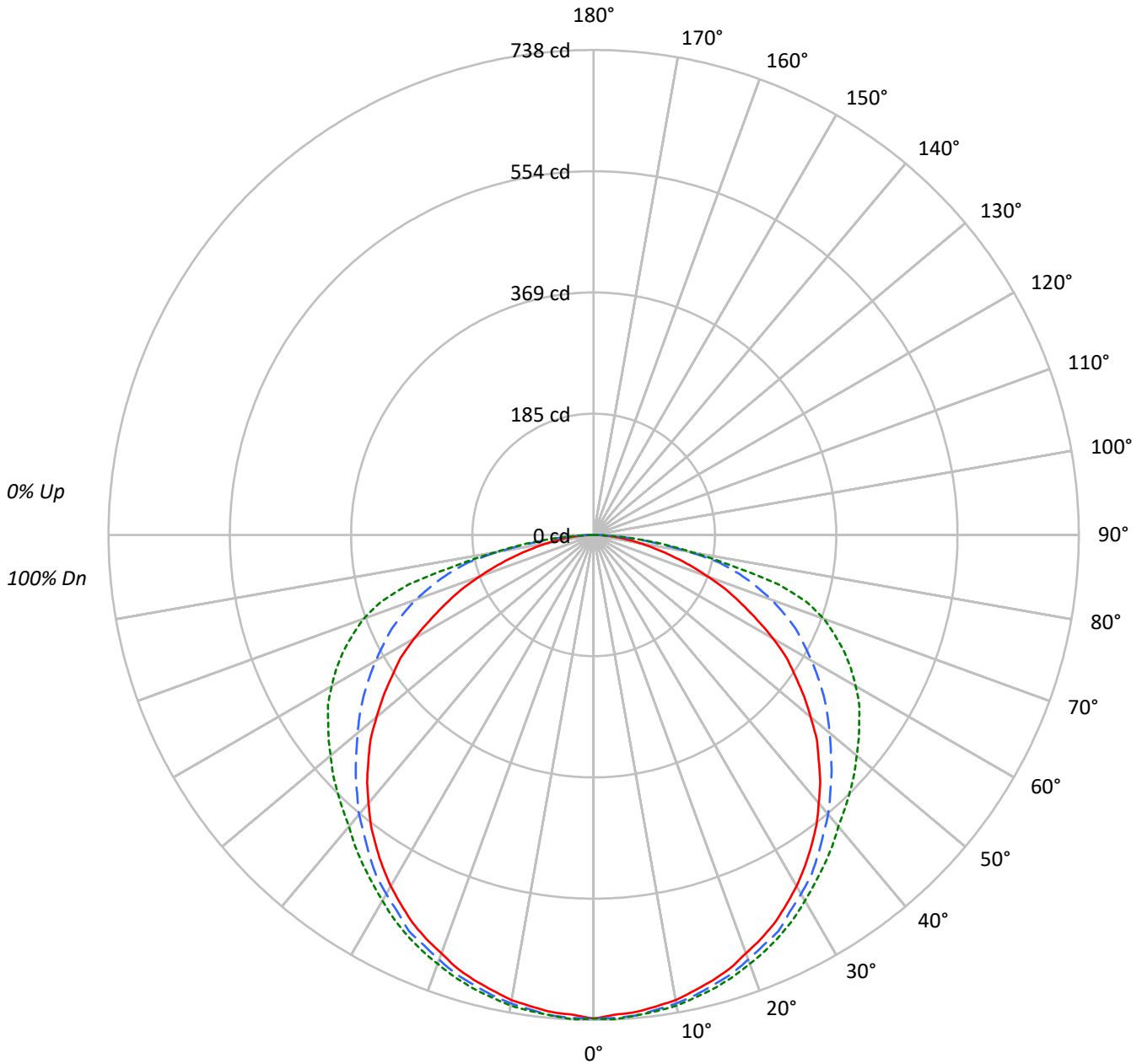
Lumens per Lamp: N/A
Luminaire Lumens: 2343.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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				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			100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82			82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67			67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55			55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47			47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40			40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35			35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31			31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27			27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24			24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2088	2088	2088
5°	2076	2091	2091
10°	2071	2086	2096
15°	2060	2081	2097
20°	2046	2077	2097
25°	2040	2083	2105
30°	2022	2067	2106
35°	2000	2060	2120
40°	1973	2056	2145
45°	1943	2054	2214
50°	1902	2069	2306
55°	1851	2114	2439
60°	1789	2171	2612
65°	1667	2280	2824
70°	1529	2389	3088
75°	1343	2513	3193
80°	1154	2396	2507
85°	1006	1735	1905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.0
10°-20°	199.9	8.5
20°-30°	305.0	13.0
30°-40°	372.4	15.9
40°-50°	398.2	17.0
50°-60°	384.3	16.4
60°-70°	330.8	14.1
70°-80°	223.8	9.6
80°-90°	59.0	2.5
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°	574.5	24.5
0°-40°	946.9	40.4
0°-60°	1729.3	73.8
0°-90°	2343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	729	731	734	734	734	69
15°	701	703	708	712	714	198
25°	652	655	665	669	672	300
35°	578	582	595	607	612	361
45°	484	493	512	538	552	374
55°	374	386	427	471	493	335
65°	248	272	340	393	421	247
75°	122	162	229	276	291	131
85°	31	43	53	55	58	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	735.9	735.9	735.9	735.9	735.9
2.5°	730.9	732.6	735.9	735.9	737.8
5°	729.0	730.9	734.2	734.2	734.2
7.5°	723.9	725.7	729.0	730.9	730.9
10°	718.7	720.5	723.9	725.7	727.4
12.5°	710.1	711.8	717.0	720.5	720.5
15°	701.4	703.3	708.5	711.8	713.7
17.5°	691.3	694.6	699.8	703.3	705.0
20°	677.4	680.9	687.7	692.9	694.6
22.5°	665.3	668.8	675.7	680.9	684.2
25°	651.6	654.9	665.3	668.8	672.2
27.5°	634.4	637.7	646.4	653.3	658.5
30°	617.2	620.5	630.9	639.4	642.9
32.5°	598.1	603.2	615.3	622.1	627.3
35°	577.5	582.5	594.7	606.8	612.0
37.5°	556.7	561.9	574.0	589.5	596.4
40°	532.7	539.5	555.1	575.6	579.2
42.5°	510.2	518.8	532.7	556.7	565.3
45°	484.3	493.0	511.9	537.9	551.6
47.5°	460.2	468.7	489.5	520.6	537.9
50°	430.9	443.0	468.7	505.1	522.3
52.5°	403.3	413.7	448.2	487.8	508.4
55°	374.1	386.1	427.4	470.6	493.0
57.5°	348.1	358.5	405.0	453.4	479.1
60°	315.3	329.2	382.6	434.3	460.2
62.5°	280.9	301.6	360.2	413.7	441.3
65°	248.3	272.4	339.6	393.0	420.6
67.5°	218.8	244.7	313.7	370.5	396.5
70°	184.3	217.1	287.9	342.9	372.2
72.5°	153.4	189.5	258.4	313.7	339.6
75°	122.5	161.9	229.2	275.9	291.2
77.5°	94.9	132.6	196.6	210.3	211.9
80°	70.6	105.0	146.6	148.2	153.4
82.5°	48.2	74.1	94.9	103.4	105.0
85°	30.9	43.2	53.3	55.2	58.5
87.5°	13.7	15.6	18.9	17.2	17.2
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)