

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: P843074

Luminaire Tested: **24CZ2-45-RDP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45-RDP-UNV-B40
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

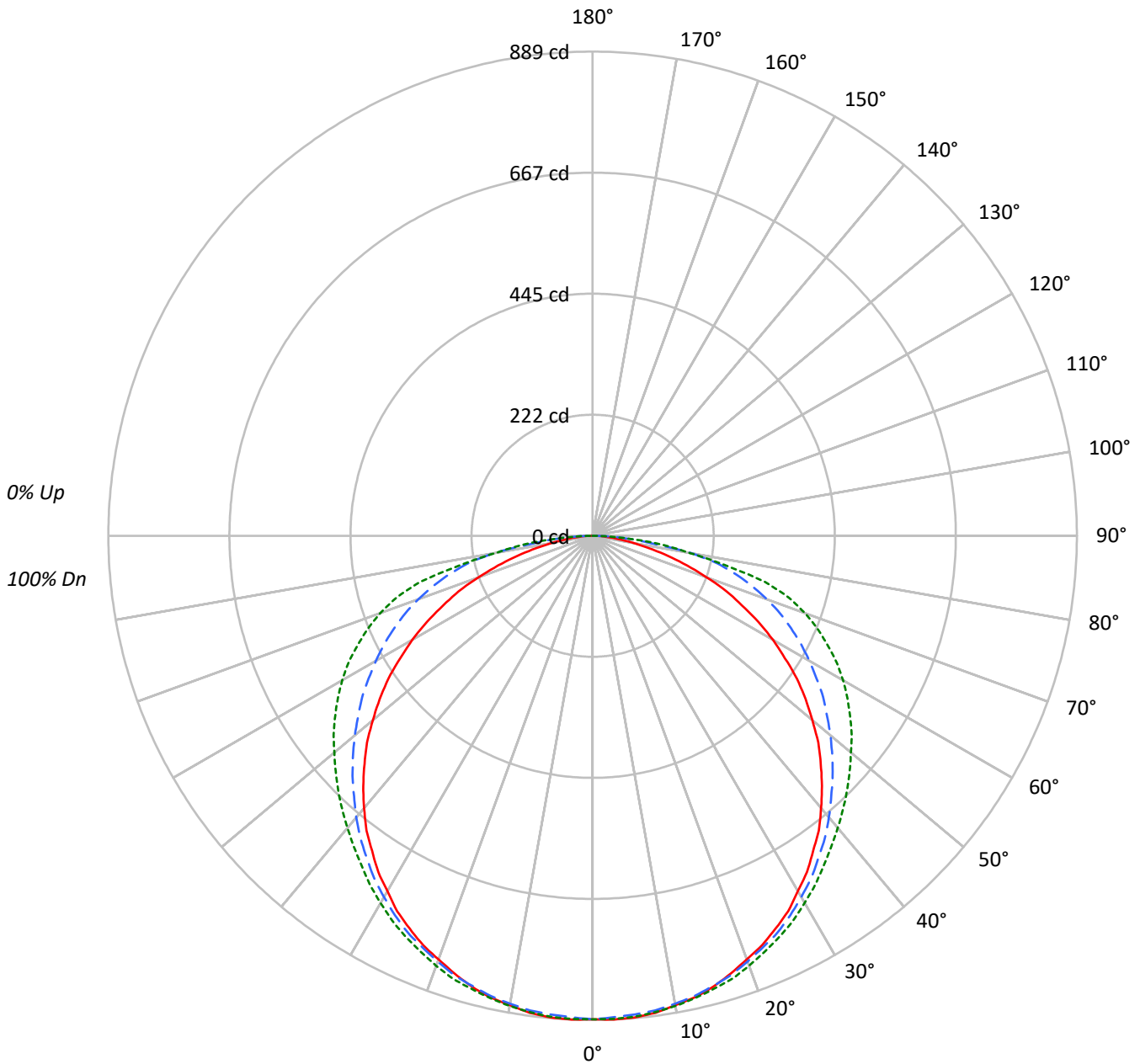
Lumens per Lamp: N/A
Luminaire Lumens: 2823.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1253	1253	1253
5°	1258	1250	1256
10°	1254	1250	1256
15°	1252	1250	1258
20°	1243	1249	1262
25°	1239	1252	1265
30°	1228	1248	1269
35°	1216	1245	1274
40°	1202	1243	1290
45°	1182	1244	1319
50°	1156	1251	1359
55°	1127	1271	1420
60°	1079	1296	1498
65°	1010	1342	1590
70°	919	1404	1710
75°	779	1482	1787
80°	614	1491	1445
85°	453	1135	1268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.0
10°-20°	242.4	8.6
20°-30°	370.6	13.1
30°-40°	453.1	16.0
40°-50°	482.9	17.1
50°-60°	461.7	16.4
60°-70°	391.1	13.9
70°-80°	262.9	9.3
80°-90°	74.2	2.6
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°	697.2	24.7
0°-40°	1150.3	40.7
0°-60°	2094.9	74.2
0°-90°	2823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	888	886	882	886	886	84
15°	857	857	856	863	861	242
25°	795	798	804	811	812	367
35°	706	711	722	736	739	442
45°	592	602	623	650	661	457
55°	458	475	517	557	577	408
65°	302	333	402	455	476	300
75°	143	195	272	318	328	153
85°	28	57	70	76	78	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.8	887.8	887.8	887.8	887.8
2.5°	889.1	889.1	884.9	887.8	887.8
5°	887.8	886.4	882.2	886.4	886.4
7.5°	883.5	882.2	879.3	883.5	882.2
10°	875.1	875.1	872.4	876.6	876.6
12.5°	868.2	866.8	865.3	870.9	869.5
15°	857.0	857.0	855.5	862.6	861.1
17.5°	843.0	844.4	845.7	851.3	852.8
20°	827.5	830.4	831.7	840.1	840.1
22.5°	813.5	815.0	817.7	826.1	826.1
25°	795.4	798.1	803.7	810.8	812.1
27.5°	777.2	778.5	785.6	795.4	796.8
30°	753.4	757.6	765.9	777.2	778.5
32.5°	732.3	736.5	746.3	757.6	760.3
35°	705.8	711.3	722.5	736.5	739.4
37.5°	681.9	686.2	700.2	715.5	719.8
40°	652.6	660.8	674.9	693.1	700.2
42.5°	623.2	631.5	648.3	672.2	680.6
45°	592.3	602.1	623.2	649.7	660.8
47.5°	561.6	572.7	596.5	627.2	639.9
50°	526.4	540.5	569.8	605.0	619.0
52.5°	492.8	509.7	542.0	581.1	599.4
55°	457.9	474.6	516.7	557.3	576.9
57.5°	418.7	441.0	487.3	533.5	554.5
60°	382.3	403.2	459.2	509.7	530.7
62.5°	343.1	371.1	431.2	484.4	505.5
65°	302.4	333.3	401.8	455.0	476.1
67.5°	266.1	299.7	372.5	425.6	446.8
70°	222.7	264.6	340.2	393.4	414.5
72.5°	182.0	228.3	306.6	358.4	378.0
75°	142.8	194.7	271.7	317.9	327.7
77.5°	106.4	161.1	235.2	254.8	247.9
80°	75.6	128.8	183.4	173.6	177.8
82.5°	49.0	98.1	113.5	128.8	133.0
85°	28.0	57.4	70.1	75.6	78.3
87.5°	12.7	20.9	28.0	28.0	26.7
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)