

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: P732272

Luminaire Tested: **24CZ2-45HE-RDP-B2750-W2D-3000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732272  
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: 24CZ2-45HE-RDP-B2750-W2D-3000K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

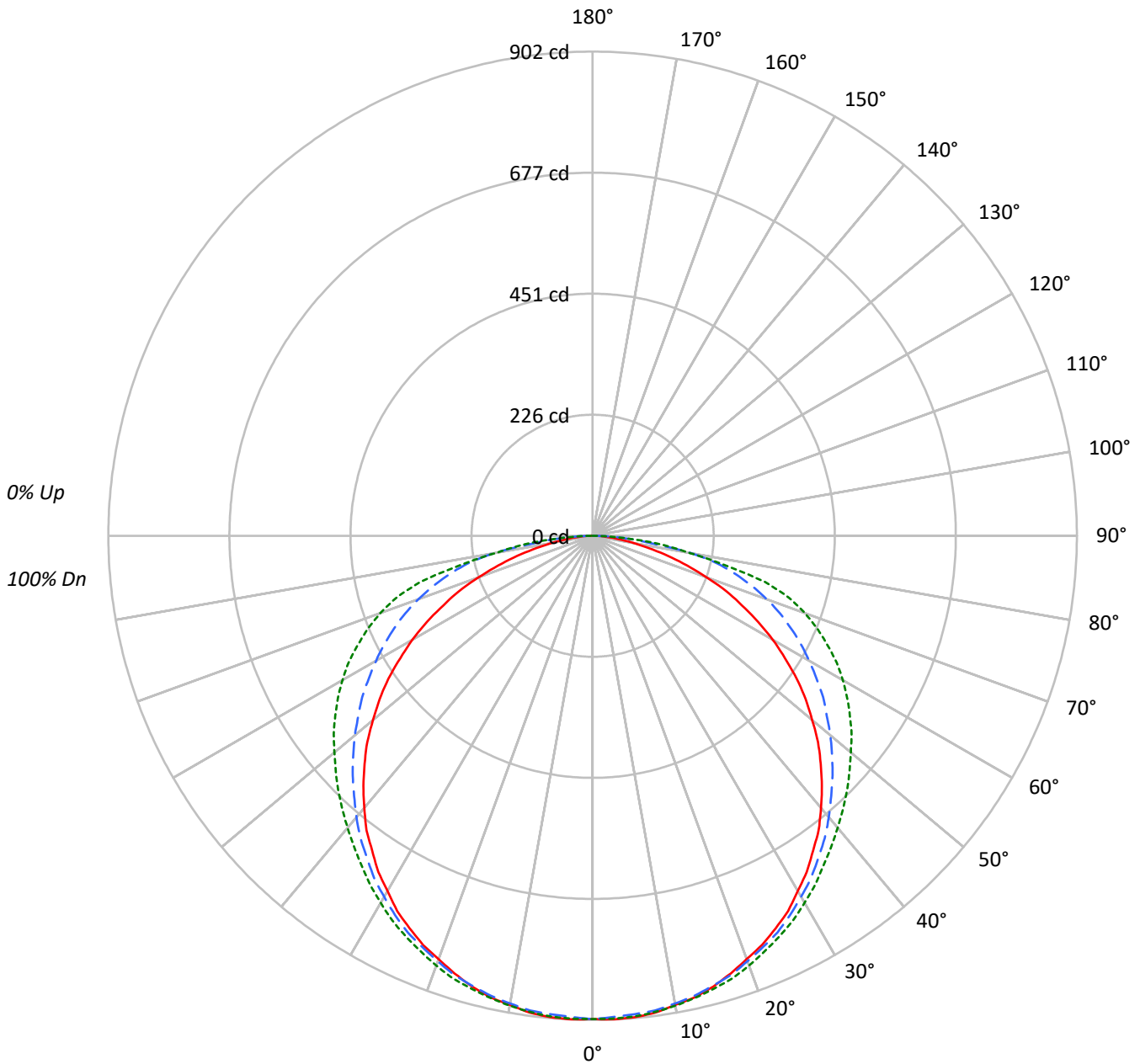
Lumens per Lamp: N/A  
Luminaire Lumens: 2863.0 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1271	1271	1271
5°	1275	1268	1274
10°	1272	1268	1274
15°	1270	1268	1276
20°	1260	1267	1280
25°	1256	1269	1283
30°	1245	1266	1287
35°	1233	1262	1292
40°	1219	1261	1308
45°	1199	1261	1338
50°	1172	1269	1378
55°	1143	1289	1440
60°	1094	1315	1519
65°	1024	1361	1613
70°	932	1424	1735
75°	790	1502	1813
80°	623	1512	1465
85°	460	1151	1287



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.4	3.0
10°-20°	245.8	8.6
20°-30°	375.9	13.1
30°-40°	459.5	16.0
40°-50°	489.7	17.1
50°-60°	468.3	16.4
60°-70°	396.7	13.9
70°-80°	266.6	9.3
80°-90°	75.2	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°	707.1	24.7
0°-40°	1166.6	40.7
0°-60°	2124.6	74.2
0°-90°	2863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	900	899	895	899	899	86
15°	869	869	868	875	873	245
25°	807	809	815	822	824	372
35°	716	721	733	747	750	448
45°	601	611	632	659	670	463
55°	464	481	524	565	585	414
65°	307	338	408	462	483	305
75°	145	197	276	322	332	155
85°	28	58	71	77	80	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	900.3	900.3	900.3	900.3	900.3
2.5°	901.7	901.7	897.4	900.3	900.3
5°	900.3	899.0	894.7	899.0	899.0
7.5°	896.1	894.7	891.8	896.1	894.7
10°	887.5	887.5	884.8	889.0	889.0
12.5°	880.5	879.1	877.6	883.2	881.8
15°	869.2	869.2	867.6	874.8	873.3
17.5°	855.0	856.3	857.7	863.4	864.9
20°	839.2	842.1	843.5	852.1	852.1
22.5°	825.0	826.5	829.3	837.8	837.8
25°	806.7	809.4	815.1	822.3	823.6
27.5°	788.2	789.6	796.7	806.7	808.0
30°	764.0	768.3	776.7	788.2	789.6
32.5°	742.6	746.9	756.8	768.3	771.1
35°	715.8	721.4	732.7	746.9	749.8
37.5°	691.6	695.9	710.1	725.7	730.0
40°	661.8	670.2	684.4	702.9	710.1
42.5°	632.0	640.4	657.5	681.7	690.2
45°	600.7	610.6	632.0	658.9	670.2
47.5°	569.5	580.8	605.0	636.1	649.0
50°	533.9	548.1	577.9	613.5	627.7
52.5°	499.8	517.0	549.7	589.4	607.9
55°	464.4	481.3	524.0	565.2	585.1
57.5°	424.7	447.3	494.2	541.1	562.3
60°	387.7	408.9	465.8	517.0	538.2
62.5°	347.9	376.4	437.3	491.3	512.7
65°	306.7	338.0	407.5	461.5	482.9
67.5°	269.9	303.9	377.7	431.7	453.1
70°	225.9	268.3	345.0	399.0	420.4
72.5°	184.6	231.5	311.0	363.5	383.4
75°	144.9	197.4	275.5	322.4	332.4
77.5°	107.9	163.4	238.5	258.4	251.4
80°	76.7	130.7	186.0	176.0	180.3
82.5°	49.7	99.5	115.1	130.7	134.9
85°	28.4	58.2	71.1	76.7	79.5
87.5°	12.8	21.2	28.4	28.4	27.1
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)