

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: P843088

Luminaire Tested: **24CZ2-45HE-RDP-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843088  
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-UNV-B35  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

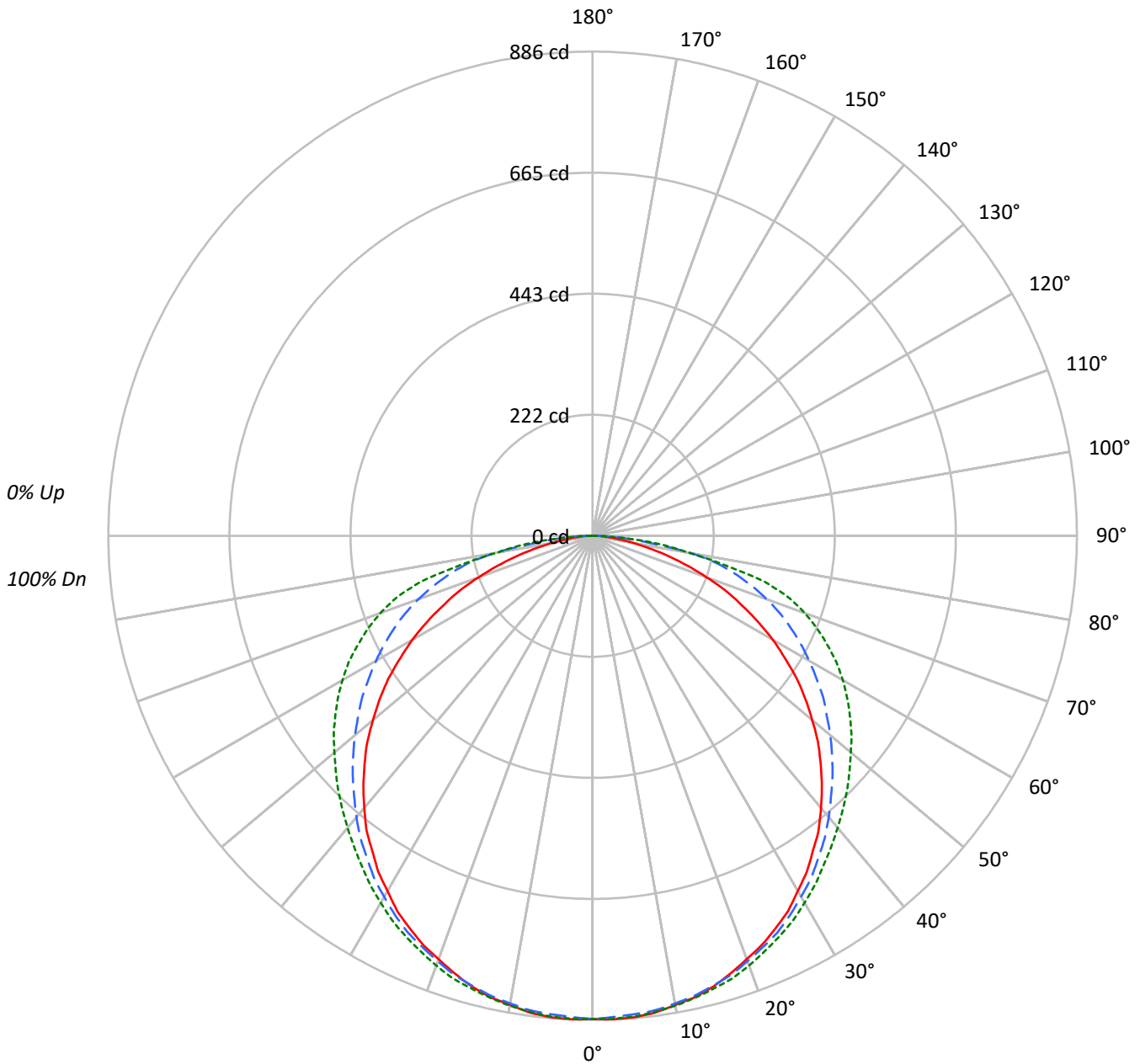
Lumens per Lamp: N/A  
Luminaire Lumens: 2812.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P843088

CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-B35

### Luminous Intensity Polar Plot





TEST NUMBER: P843088

CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-B35

**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	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	68	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°	1248	1248	1248
5°	1253	1245	1251
10°	1249	1245	1251
15°	1247	1245	1253
20°	1238	1244	1257
25°	1234	1247	1260
30°	1223	1243	1264
35°	1211	1240	1269
40°	1198	1238	1285
45°	1178	1239	1314
50°	1151	1246	1354
55°	1122	1266	1414
60°	1075	1291	1492
65°	1006	1337	1584
70°	915	1398	1704
75°	776	1476	1780
80°	612	1484	1439
85°	452	1130	1263



TEST NUMBER: P843088

CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-B35

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	3.0
10°-20°	241.4	8.6
20°-30°	369.2	13.1
30°-40°	451.3	16.0
40°-50°	481.0	17.1
50°-60°	459.9	16.4
60°-70°	389.6	13.9
70°-80°	261.8	9.3
80°-90°	73.9	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°	694.5	24.7
0°-40°	1145.8	40.7
0°-60°	2086.7	74.2
0°-90°	2812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	884	883	879	883	883	84
15°	854	854	852	859	858	241
25°	792	795	800	808	809	365
35°	703	709	720	734	736	440
45°	590	600	621	647	658	455
55°	456	473	515	555	575	406
65°	301	332	400	453	474	299
75°	142	194	271	317	326	152
85°	28	57	70	75	78	35
90°	0	0	0	0	0	



TEST NUMBER: P843088

CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-B35

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	<i>884.3</i>	884.3	884.3	884.3	884.3
2.5°	<i>885.6</i>	<i>885.6</i>	<i>881.4</i>	<i>884.3</i>	<i>884.3</i>
5°	<i>884.3</i>	883.0	878.8	883.0	883.0
7.5°	<i>880.1</i>	878.8	875.9	880.1	878.8
10°	<i>871.7</i>	871.7	869.0	873.2	873.2
12.5°	<i>864.8</i>	863.4	861.9	867.5	866.1
15°	<i>853.7</i>	853.7	852.2	859.2	857.7
17.5°	<i>839.7</i>	841.1	842.4	848.0	849.5
20°	<i>824.3</i>	827.1	828.5	836.9	836.9
22.5°	<i>810.3</i>	811.8	814.5	822.9	822.9
25°	<i>792.3</i>	795.0	800.5	807.6	809.0
27.5°	<i>774.1</i>	775.5	782.6	792.3	793.7
30°	<i>750.4</i>	754.6	762.9	774.1	775.5
32.5°	<i>729.4</i>	733.6	743.4	754.6	757.3
35°	<i>703.0</i>	708.6	719.7	733.6	736.5
37.5°	<i>679.3</i>	683.5	697.5	712.8	717.0
40°	<i>650.0</i>	658.3	672.2	690.4	697.5
42.5°	<i>620.8</i>	629.0	645.8	669.5	677.9
45°	<i>590.0</i>	599.7	620.8	647.2	658.3
47.5°	<i>559.4</i>	570.5	594.2	624.8	637.4
50°	<i>524.4</i>	538.4	567.6	602.6	616.6
52.5°	<i>490.9</i>	507.7	539.9	578.9	597.0
55°	<i>456.1</i>	472.8	514.6	555.2	574.7
57.5°	<i>417.1</i>	439.3	485.4	531.5	552.3
60°	<i>380.8</i>	401.6	457.5	507.7	528.6
62.5°	<i>341.7</i>	369.7	429.5	482.5	503.5
65°	<i>301.2</i>	332.0	400.3	453.3	474.3
67.5°	<i>265.1</i>	298.5	371.0	424.0	445.0
70°	<i>221.8</i>	263.5	338.9	391.9	412.9
72.5°	<i>181.3</i>	227.4	305.4	357.1	376.6
75°	<i>142.3</i>	193.9	270.6	316.7	326.4
77.5°	<i>106.0</i>	160.4	234.3	253.8	246.9
80°	<i>75.3</i>	128.3	182.6	172.9	177.1
82.5°	<i>48.8</i>	97.7	113.0	128.3	132.5
85°	<i>27.9</i>	57.2	69.8	75.3	78.0
87.5°	<i>12.6</i>	20.9	27.9	27.9	26.6
90°	<i>0.0</i>	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)