

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: P843089

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843089
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-B40
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

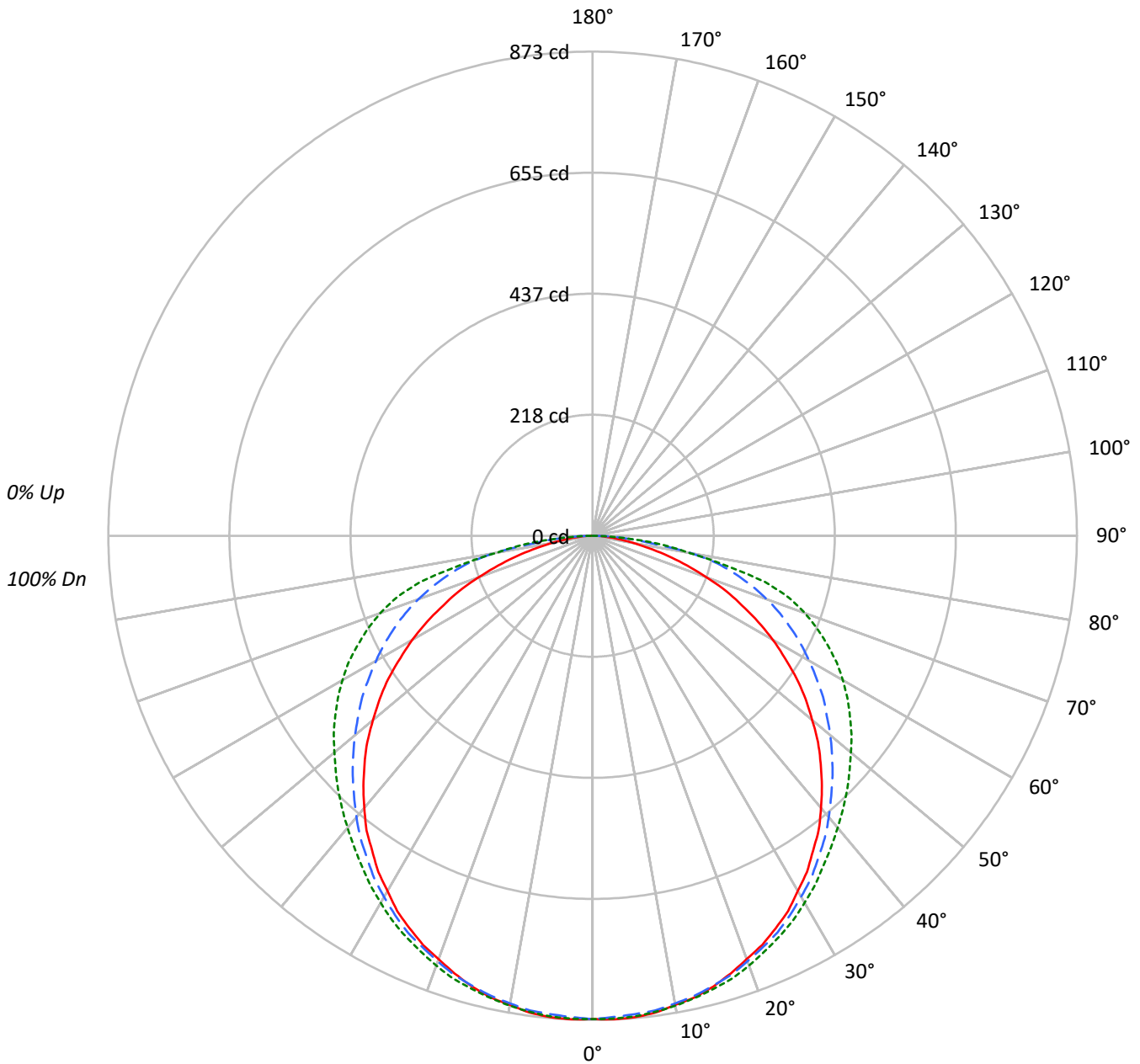
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2771.0 lumens
Efficiency: N/A
Efficacy: 84.0 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_{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

TEST NUMBER: P843089
CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P843089

CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-B40

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	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°	1230	1230	1230
5°	1235	1227	1233
10°	1231	1227	1233
15°	1229	1227	1235
20°	1220	1226	1239
25°	1216	1229	1241
30°	1205	1225	1245
35°	1194	1222	1250
40°	1180	1220	1266
45°	1160	1221	1295
50°	1134	1228	1334
55°	1106	1248	1393
60°	1059	1272	1470
65°	991	1317	1561
70°	902	1378	1679
75°	765	1454	1754
80°	603	1463	1418
85°	445	1114	1245



TEST NUMBER: P843089

CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.0
10°-20°	237.9	8.6
20°-30°	363.8	13.1
30°-40°	444.7	16.0
40°-50°	474.0	17.1
50°-60°	453.2	16.4
60°-70°	383.9	13.9
70°-80°	258.0	9.3
80°-90°	72.8	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°	684.4	24.7
0°-40°	1129.1	40.7
0°-60°	2056.3	74.2
0°-90°	2771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2771.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	871	870	866	870	870	83
15°	841	841	840	847	845	237
25°	781	783	789	796	797	360
35°	693	698	709	723	726	434
45°	581	591	612	638	649	448
55°	450	466	507	547	566	400
65°	297	327	394	447	467	295
75°	140	191	267	312	322	150
85°	28	56	69	74	77	34
90°	0	0	0	0	0	



TEST NUMBER: P843089

CATALOG NUMBER: 24CZ2-45HE-RDP-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	871.4	871.4	871.4	871.4	871.4
2.5°	872.7	872.7	868.6	871.4	871.4
5°	871.4	870.1	865.9	870.1	870.1
7.5°	867.3	865.9	863.1	867.3	865.9
10°	859.0	859.0	856.3	860.5	860.5
12.5°	852.2	850.9	849.4	854.8	853.5
15°	841.2	841.2	839.8	846.7	845.2
17.5°	827.5	828.8	830.1	835.6	837.1
20°	812.2	815.1	816.4	824.7	824.7
22.5°	798.5	800.0	802.6	810.9	810.9
25°	780.8	783.4	788.9	795.8	797.2
27.5°	762.9	764.2	771.1	780.8	782.1
30°	739.5	743.6	751.8	762.9	764.2
32.5°	718.8	722.9	732.5	743.6	746.3
35°	692.8	698.2	709.2	722.9	725.7
37.5°	669.4	673.5	687.3	702.4	706.5
40°	640.5	648.7	662.4	680.3	687.3
42.5°	611.7	619.8	636.4	659.8	668.1
45°	581.4	591.0	611.7	637.7	648.7
47.5°	551.2	562.2	585.5	615.7	628.1
50°	516.7	530.5	559.3	593.8	607.6
52.5°	483.8	500.3	532.0	570.4	588.3
55°	449.5	465.9	507.1	547.1	566.3
57.5°	411.0	432.9	478.3	523.7	544.3
60°	375.2	395.8	450.8	500.3	520.9
62.5°	336.8	364.3	423.3	475.5	496.2
65°	296.8	327.2	394.4	446.6	467.4
67.5°	261.2	294.2	365.6	417.8	438.5
70°	218.6	259.7	333.9	386.2	406.9
72.5°	178.7	224.1	301.0	351.8	371.1
75°	140.2	191.1	266.7	312.1	321.7
77.5°	104.4	158.1	230.9	250.1	243.3
80°	74.2	126.5	180.0	170.4	174.5
82.5°	48.1	96.3	111.4	126.5	130.6
85°	27.5	56.3	68.8	74.2	76.9
87.5°	12.4	20.6	27.5	27.5	26.2
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)