

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: P880883

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

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P880883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45VHE-RDP-B2750-W2D-3000K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

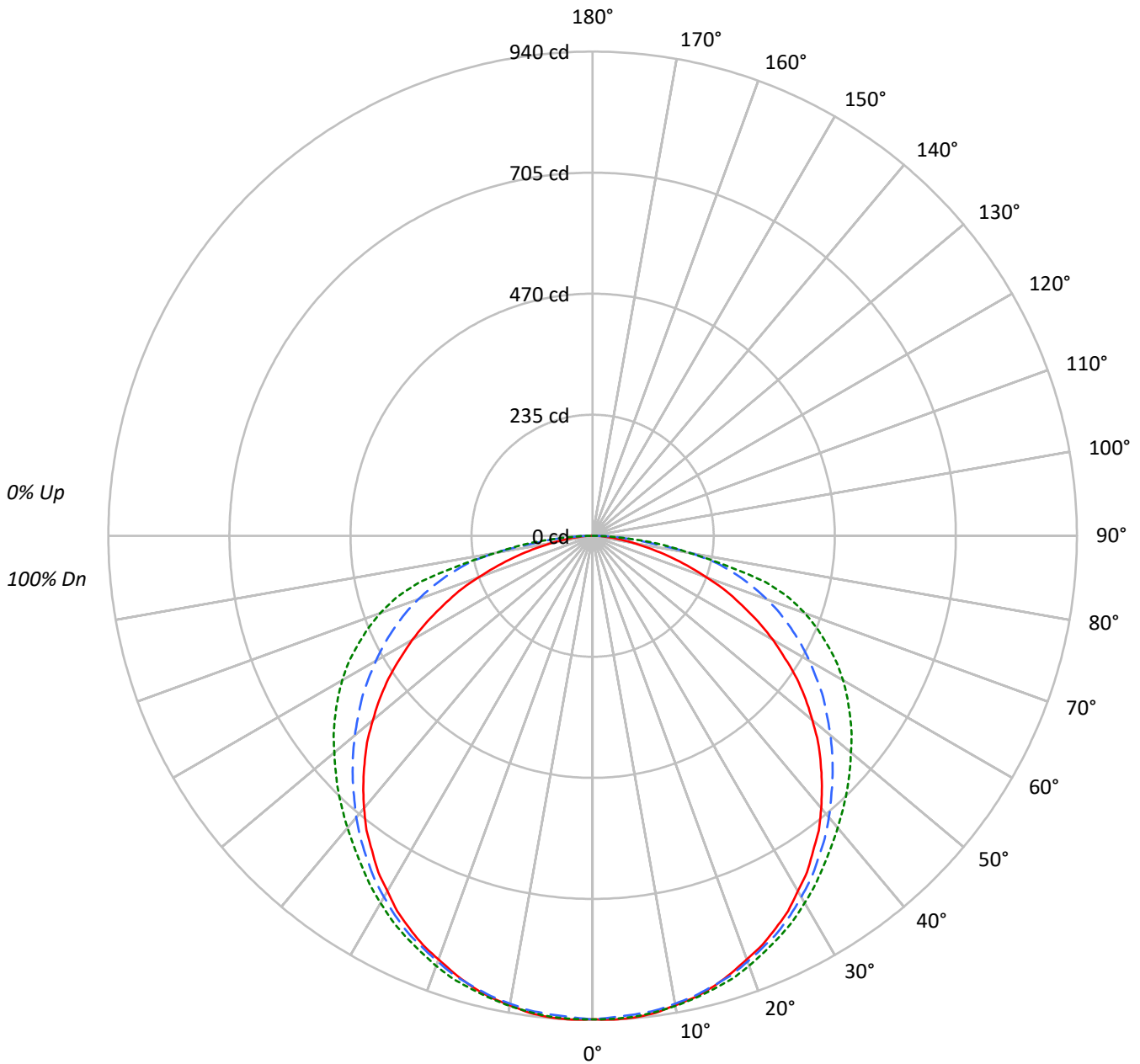
Lumens per Lamp: N/A
Luminaire Lumens: 2985.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): 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				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	93	89	92	89	87	88	86	84	82				82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67				67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47				47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40				40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35				35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27				27
9	55	41	33	27	53	40	32	27	39	32	27	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°	1325	1325	1325
5°	1330	1322	1328
10°	1326	1322	1328
15°	1324	1322	1331
20°	1314	1321	1334
25°	1310	1323	1337
30°	1298	1320	1342
35°	1286	1316	1347
40°	1271	1315	1364
45°	1250	1315	1395
50°	1222	1323	1437
55°	1191	1344	1501
60°	1141	1371	1584
65°	1068	1419	1681
70°	971	1485	1808
75°	823	1567	1890
80°	650	1576	1528
85°	479	1198	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.0
10°-20°	256.3	8.6
20°-30°	391.9	13.1
30°-40°	479.1	16.0
40°-50°	510.6	17.1
50°-60°	488.2	16.4
60°-70°	413.6	13.9
70°-80°	277.9	9.3
80°-90°	78.4	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°	737.2	24.7
0°-40°	1216.3	40.7
0°-60°	2215.1	74.2
0°-90°	2985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	939	937	933	937	937	89
15°	906	906	905	912	911	255
25°	841	844	850	857	859	388
35°	746	752	764	779	782	467
45°	626	637	659	687	699	483
55°	484	502	546	589	610	431
65°	320	352	425	481	503	318
75°	151	206	287	336	347	162
85°	30	61	74	80	83	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	938.8	938.8	938.8	938.8	938.8
2.5°	940.2	940.2	935.7	938.8	938.8
5°	938.8	937.3	932.8	937.3	937.3
7.5°	934.3	932.8	929.8	934.3	932.8
10°	925.5	925.5	922.4	926.9	926.9
12.5°	917.9	916.5	915.0	921.0	919.5
15°	906.1	906.1	904.6	912.0	910.6
17.5°	891.3	892.8	894.4	900.3	901.7
20°	875.0	878.0	879.5	888.4	888.4
22.5°	860.2	861.7	864.7	873.5	873.5
25°	841.0	843.9	849.8	857.2	858.8
27.5°	821.6	823.2	830.6	841.0	842.5
30°	796.5	801.0	809.9	821.6	823.2
32.5°	774.4	778.7	789.1	801.0	804.0
35°	746.2	752.1	764.0	778.7	781.7
37.5°	721.0	725.4	740.2	756.6	760.9
40°	690.1	698.8	713.6	732.9	740.2
42.5°	658.8	667.8	685.6	710.6	719.4
45°	626.3	636.7	658.8	687.0	698.8
47.5°	593.8	605.6	630.8	663.3	676.6
50°	556.6	571.5	602.6	639.6	654.5
52.5°	521.2	539.0	573.0	614.5	633.7
55°	484.1	501.8	546.4	589.3	610.0
57.5°	442.7	466.3	515.3	564.1	586.3
60°	404.2	426.4	485.6	539.0	561.1
62.5°	362.7	392.4	456.0	512.2	534.5
65°	319.8	352.5	424.9	481.2	503.4
67.5°	281.4	316.9	393.8	450.1	472.2
70°	235.4	279.8	359.9	416.0	438.2
72.5°	192.4	241.3	324.3	379.1	399.8
75°	150.9	205.7	287.3	336.1	346.6
77.5°	112.6	170.2	248.7	269.5	262.1
80°	80.0	136.3	193.9	183.5	188.0
82.5°	51.9	103.7	120.0	136.3	140.5
85°	29.6	60.7	74.0	80.0	83.0
87.5°	13.3	22.3	29.6	29.6	28.2
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)