

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: P880882

Luminaire Tested: **24CZ2-45VHE-RDP-B2750-W2D-2700K**

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: P880882
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-2700K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

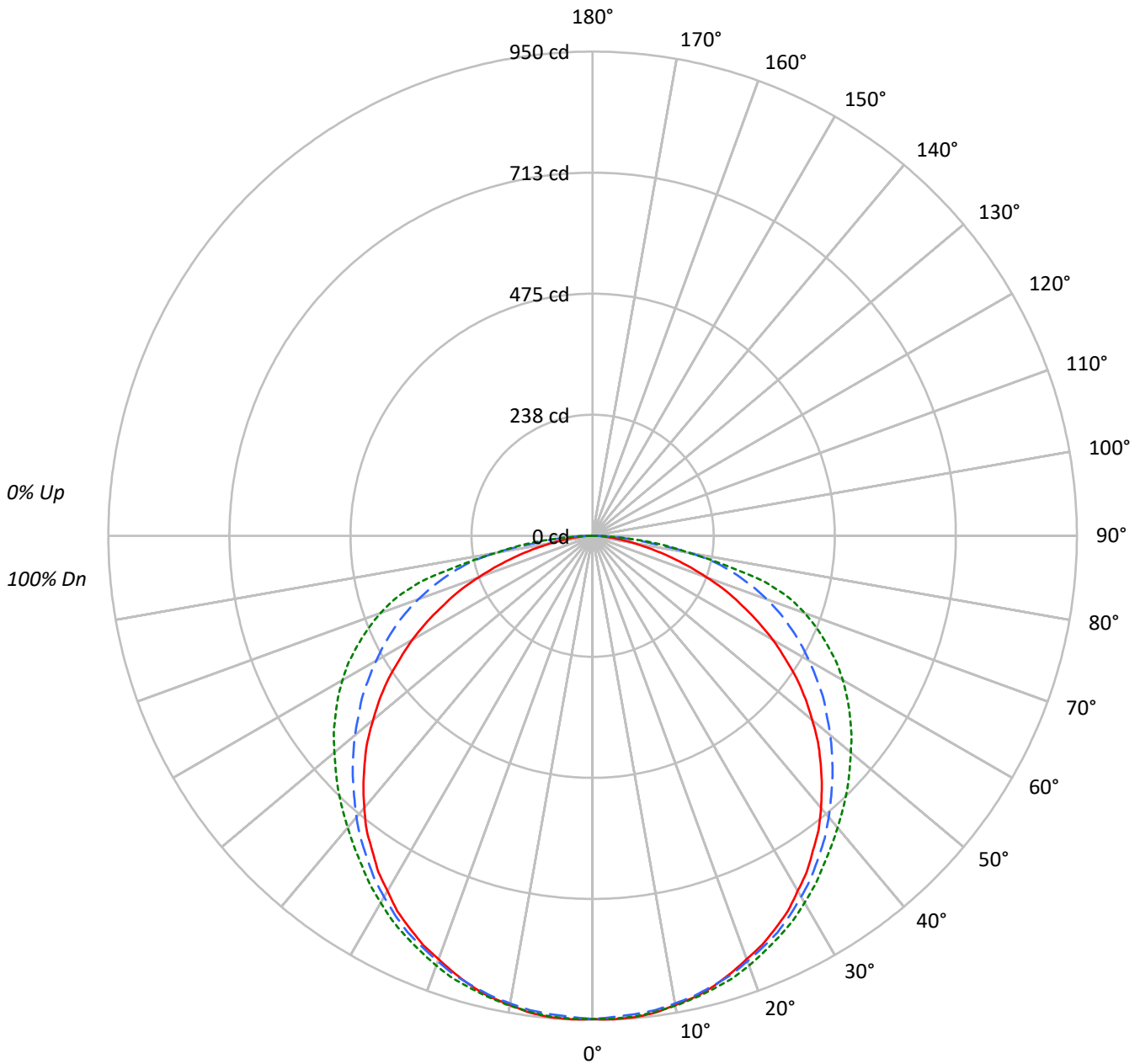
Lumens per Lamp: N/A
Luminaire Lumens: 3015.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P880882

CATALOG NUMBER: 24CZ2-45VHE-RDP-B2750-W2D-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P880882

CATALOG NUMBER: 24CZ2-45VHE-RDP-B2750-W2D-2700K

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°	1338	1338	1338
5°	1343	1335	1341
10°	1340	1335	1342
15°	1337	1335	1344
20°	1327	1334	1348
25°	1323	1337	1351
30°	1311	1333	1355
35°	1299	1329	1360
40°	1284	1328	1378
45°	1263	1328	1409
50°	1234	1336	1452
55°	1203	1358	1516
60°	1152	1385	1600
65°	1079	1433	1698
70°	981	1500	1826
75°	832	1582	1909
80°	657	1591	1543
85°	484	1211	1357



TEST NUMBER: P880882

CATALOG NUMBER: 24CZ2-45VHE-RDP-B2750-W2D-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.0
10°-20°	258.9	8.6
20°-30°	395.8	13.1
30°-40°	483.9	16.0
40°-50°	515.7	17.1
50°-60°	493.1	16.4
60°-70°	417.7	13.9
70°-80°	280.7	9.3
80°-90°	79.2	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°	744.6	24.7
0°-40°	1228.5	40.7
0°-60°	2237.3	74.2
0°-90°	3015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	948	947	942	947	947	90
15°	915	915	914	921	920	258
25°	850	852	858	866	867	391
35°	754	760	772	786	790	472
45°	633	643	666	694	706	488
55°	489	507	552	595	616	436
65°	323	356	429	486	508	321
75°	152	208	290	340	350	163
85°	30	61	75	81	84	37
90°	0	0	0	0	0	



TEST NUMBER: P880882

CATALOG NUMBER: 24CZ2-45VHE-RDP-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.2	948.2	948.2	948.2	948.2
2.5°	949.6	949.6	945.1	948.2	948.2
5°	948.2	946.7	942.2	946.7	946.7
7.5°	943.7	942.2	939.1	943.7	942.2
10°	934.8	934.8	931.7	936.2	936.2
12.5°	927.2	925.7	924.2	930.2	928.8
15°	915.2	915.2	913.7	921.2	919.7
17.5°	900.3	901.7	903.4	909.3	910.8
20°	883.8	886.9	888.3	897.4	897.4
22.5°	868.9	870.4	873.4	882.3	882.3
25°	849.5	852.4	858.4	865.8	867.4
27.5°	829.9	831.5	839.0	849.5	850.9
30°	804.5	809.0	818.1	829.9	831.5
32.5°	782.1	786.5	797.0	809.0	812.1
35°	753.7	759.7	771.6	786.5	789.6
37.5°	728.3	732.6	747.7	764.2	768.6
40°	697.0	705.8	720.8	740.2	747.7
42.5°	665.5	674.5	692.5	717.7	726.7
45°	632.6	643.1	665.5	693.9	705.8
47.5°	599.8	611.7	637.1	670.0	683.4
50°	562.2	577.3	608.7	646.0	661.1
52.5°	526.4	544.4	578.7	620.6	640.1
55°	488.9	506.9	551.9	595.2	616.1
57.5°	447.2	471.0	520.5	569.8	592.2
60°	408.3	430.6	490.5	544.4	566.8
62.5°	366.4	396.3	460.6	517.4	539.9
65°	323.0	356.0	429.2	486.0	508.5
67.5°	284.2	320.1	397.8	454.6	476.9
70°	237.7	282.6	363.5	420.1	442.6
72.5°	194.4	243.7	327.5	382.9	403.8
75°	152.5	207.8	290.2	339.5	350.0
77.5°	113.8	171.9	251.2	272.2	264.8
80°	80.8	137.7	195.8	185.3	189.8
82.5°	52.4	104.7	121.2	137.7	141.9
85°	29.9	61.3	74.8	80.8	83.8
87.5°	13.4	22.5	29.9	29.9	28.5
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)