

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: P880817

Luminaire Tested: **24CZ2-30VHE-SQR-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: P880817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30VHE-SQR-B2750-W2D-2700K
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

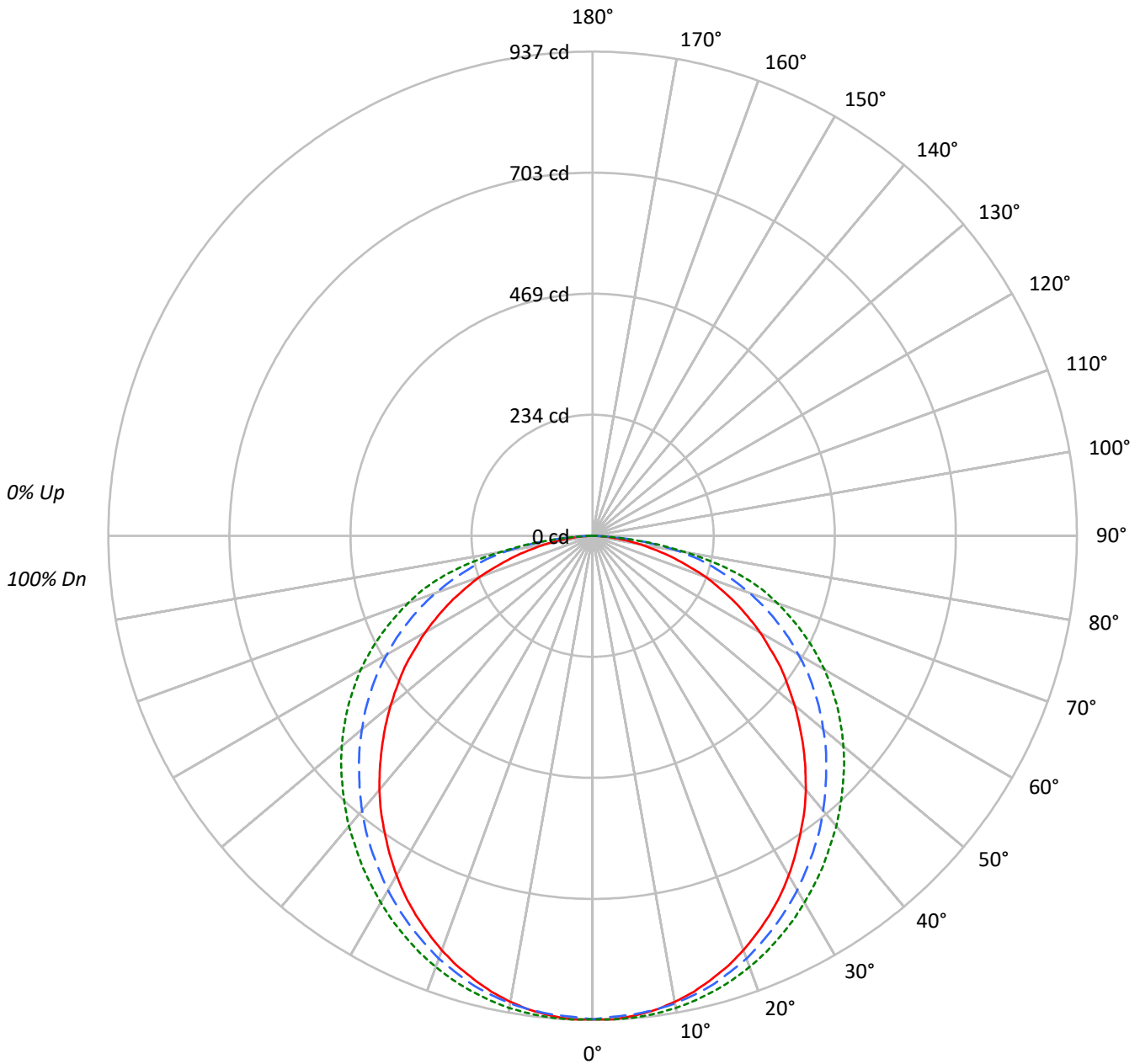
Lumens per Lamp: N/A
Luminaire Lumens: 2849.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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: P880817

CATALOG NUMBER: 24CZ2-30VHE-SQR-B2750-W2D-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P880817

CATALOG NUMBER: 24CZ2-30VHE-SQR-B2750-W2D-2700K

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	101	96	93	96	93	90	92	90	87	89	87	84	82				82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68				68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56				56
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36				36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31				31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28				28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1321	1321	1321
5°	1321	1317	1326
10°	1312	1317	1330
15°	1298	1314	1332
20°	1282	1308	1334
25°	1261	1299	1334
30°	1237	1291	1336
35°	1208	1283	1341
40°	1182	1279	1352
45°	1150	1276	1366
50°	1119	1279	1391
55°	1093	1288	1422
60°	1056	1298	1462
65°	1014	1313	1506
70°	962	1332	1566
75°	862	1350	1618
80°	725	1354	1469
85°	538	1023	965



TEST NUMBER: P880817

CATALOG NUMBER: 24CZ2-30VHE-SQR-B2750-W2D-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	3.1
10°-20°	254.2	8.9
20°-30°	384.7	13.5
30°-40°	465.4	16.3
40°-50°	491.3	17.2
50°-60°	463.3	16.3
60°-70°	382.0	13.4
70°-80°	250.6	8.8
80°-90°	68.9	2.4
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°	727.6	25.5
0°-40°	1193.0	41.9
0°-60°	2147.6	75.4
0°-90°	2849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	932	932	930	936	936	88
15°	888	894	899	910	912	251
25°	810	820	834	851	857	373
35°	701	720	745	770	778	439
45°	576	602	639	673	684	445
55°	444	476	523	563	578	396
65°	304	340	393	435	451	300
75°	158	198	248	287	297	167
85°	33	57	63	61	60	41
90°	0	0	0	0	0	



TEST NUMBER: P880817

CATALOG NUMBER: 24CZ2-30VHE-SQR-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.8	935.8	935.8	935.8	935.8
2.5°	936.7	935.8	931.7	937.2	936.7
5°	932.1	932.1	929.5	935.8	935.8
7.5°	925.8	926.2	925.3	932.6	932.6
10°	915.8	917.6	918.9	927.2	928.0
12.5°	903.9	907.2	909.8	919.9	920.8
15°	888.5	893.5	899.4	909.8	911.7
17.5°	872.5	878.5	884.9	898.5	900.8
20°	853.4	860.3	870.7	884.4	888.0
22.5°	832.1	841.6	852.5	868.9	873.5
25°	809.8	819.7	833.9	851.2	856.6
27.5°	785.6	797.4	813.4	833.4	839.3
30°	758.8	772.4	792.0	813.4	819.7
32.5°	730.5	746.4	768.3	792.0	799.2
35°	701.4	719.6	744.6	770.2	778.3
37.5°	672.7	690.9	720.5	747.4	755.1
40°	641.7	661.8	694.1	722.8	733.7
42.5°	609.0	632.7	666.8	698.7	709.1
45°	576.2	602.1	639.1	673.2	684.5
47.5°	543.0	571.7	612.2	646.8	660.0
50°	509.8	540.3	582.6	619.9	633.6
52.5°	476.1	508.0	553.9	593.5	605.8
55°	444.3	475.6	523.4	562.6	578.0
57.5°	407.3	442.9	493.4	533.0	548.0
60°	374.1	408.8	459.8	501.6	517.9
62.5°	338.1	373.6	427.4	469.2	485.2
65°	303.6	340.0	393.3	435.2	451.0
67.5°	266.3	304.5	359.1	399.7	415.1
70°	233.1	269.0	322.7	364.2	379.6
72.5°	192.5	233.5	284.9	325.9	342.7
75°	158.0	198.4	247.6	286.8	296.8
77.5°	121.5	162.0	210.7	236.2	243.0
80°	89.2	127.4	166.6	180.3	180.7
82.5°	60.1	93.8	116.1	122.9	122.0
85°	33.2	57.3	63.2	61.4	59.6
87.5°	13.7	19.1	15.5	10.9	8.6
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)