

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: P880843

Luminaire Tested: **24CZ2-35VHE-SQR-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: P880843
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: 24CZ2-35VHE-SQR-B2750-W2D-3000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

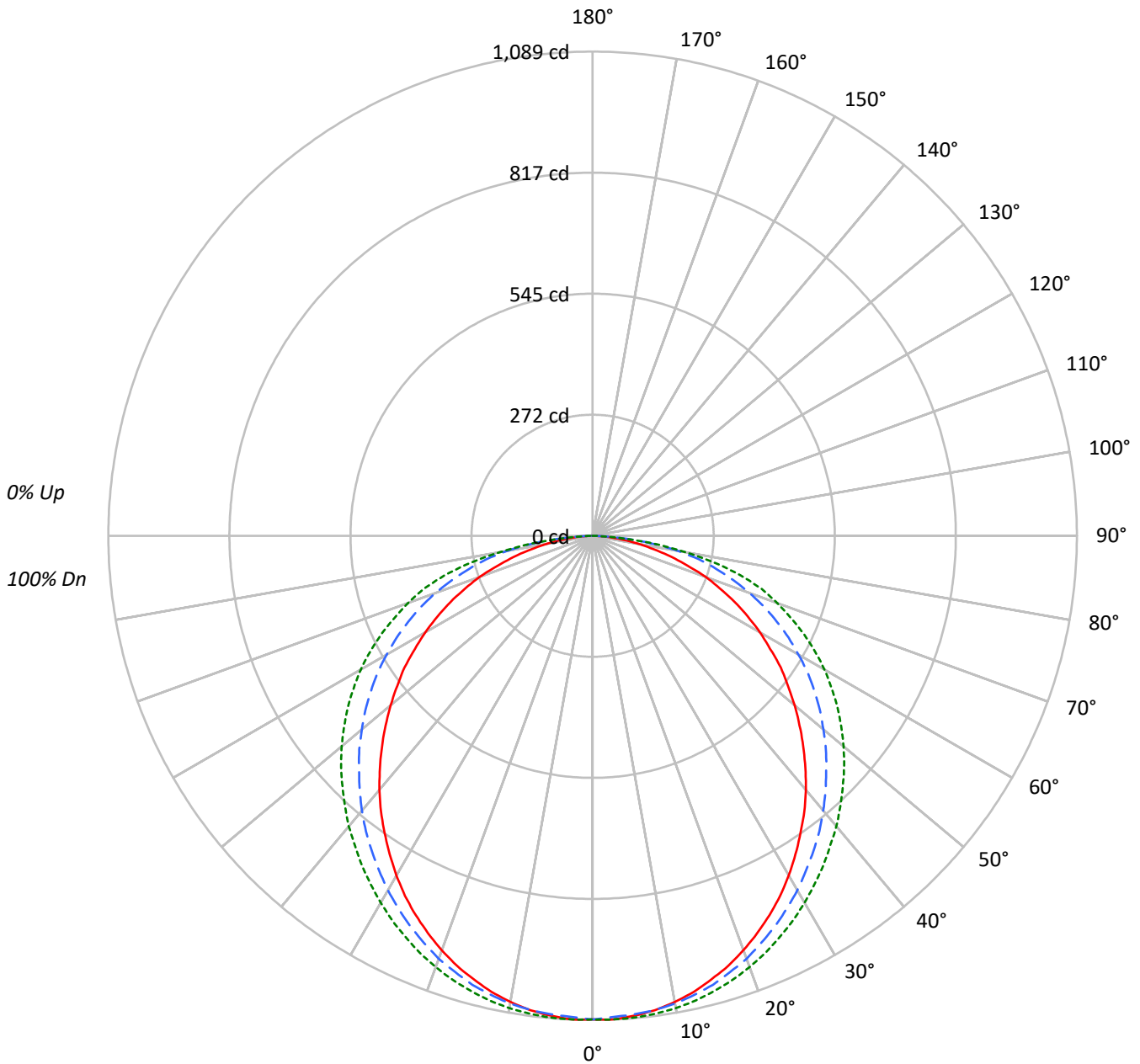
Lumens per Lamp: N/A
Luminaire Lumens: 3312.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1535	1535	1535
5°	1535	1531	1541
10°	1526	1531	1546
15°	1509	1528	1549
20°	1490	1520	1550
25°	1466	1510	1551
30°	1438	1500	1553
35°	1405	1492	1559
40°	1374	1487	1572
45°	1337	1483	1588
50°	1301	1487	1617
55°	1271	1497	1654
60°	1228	1509	1700
65°	1179	1527	1751
70°	1118	1548	1821
75°	1001	1569	1881
80°	843	1574	1707
85°	625	1190	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	3.1
10°-20°	295.5	8.9
20°-30°	447.3	13.5
30°-40°	541.1	16.3
40°-50°	571.1	17.2
50°-60°	538.6	16.3
60°-70°	444.0	13.4
70°-80°	291.3	8.8
80°-90°	80.1	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°	845.8	25.5
0°-40°	1386.9	41.9
0°-60°	2496.6	75.4
0°-90°	3312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1084	1084	1080	1088	1088	103
15°	1033	1039	1046	1058	1060	291
25°	941	953	969	990	996	434
35°	815	836	866	895	905	510
45°	670	700	743	783	796	517
55°	516	553	608	654	672	460
65°	353	395	457	506	524	348
75°	184	231	288	333	345	194
85°	39	67	74	71	69	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.9	1087.9	1087.9	1087.9	1087.9
2.5°	1088.9	1087.9	1083.2	1089.5	1088.9
5°	1083.6	1083.6	1080.5	1087.9	1087.9
7.5°	1076.2	1076.8	1075.7	1084.2	1084.2
10°	1064.6	1066.7	1068.3	1077.9	1078.9
12.5°	1050.8	1054.6	1057.7	1069.4	1070.5
15°	1032.8	1038.7	1045.5	1057.7	1059.9
17.5°	1014.3	1021.3	1028.7	1044.5	1047.2
20°	992.1	1000.1	1012.2	1028.1	1032.3
22.5°	967.3	978.3	991.0	1010.1	1015.4
25°	941.4	952.9	969.4	989.5	995.8
27.5°	913.3	927.0	945.6	968.8	975.7
30°	882.1	897.9	920.7	945.6	952.9
32.5°	849.2	867.7	893.1	920.7	929.1
35°	815.4	836.5	865.7	895.3	904.8
37.5°	782.0	803.2	837.6	868.9	877.8
40°	746.0	769.3	806.9	840.3	853.0
42.5°	707.9	735.5	775.2	812.2	824.4
45°	669.9	700.0	742.9	782.6	795.8
47.5°	631.2	664.6	711.7	751.9	767.2
50°	592.6	628.0	677.3	720.6	736.5
52.5°	553.4	590.5	643.9	690.0	704.3
55°	516.5	552.9	608.5	654.0	672.0
57.5°	473.5	514.8	573.5	619.7	637.1
60°	434.9	475.2	534.5	583.1	602.1
62.5°	393.1	434.4	496.8	545.5	564.0
65°	352.9	395.3	457.2	505.9	524.3
67.5°	309.6	354.0	417.5	464.6	482.6
70°	270.9	312.8	375.1	423.3	441.3
72.5°	223.8	271.5	331.2	378.9	398.4
75°	183.6	230.6	287.8	333.4	345.0
77.5°	141.3	188.4	245.0	274.6	282.5
80°	103.7	148.1	193.7	209.6	210.0
82.5°	69.9	109.0	135.0	142.9	141.8
85°	38.6	66.7	73.5	71.4	69.3
87.5°	15.9	22.2	18.0	12.7	10.0
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)