

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: P880842

Luminaire Tested: **24CZ2-35VHE-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: P880842
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-2700K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

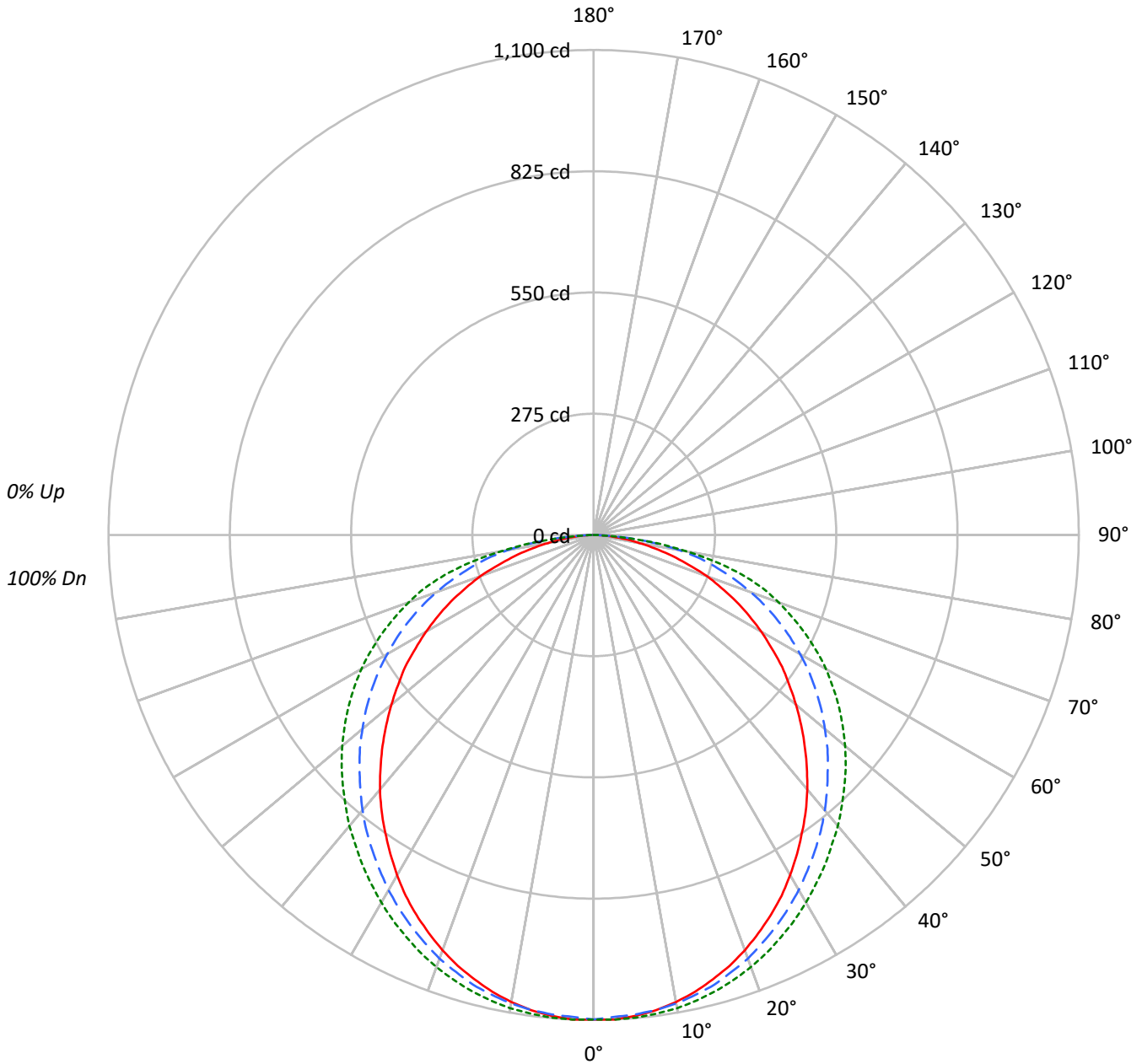
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3346.0 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): 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

TEST NUMBER: P880842
CATALOG NUMBER: 24CZ2-35VHE-SQR-B2750-W2D-2700K

Luminous Intensity Polar Plot





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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	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°	1551	1551	1551
5°	1551	1547	1557
10°	1541	1547	1562
15°	1525	1543	1565
20°	1505	1536	1566
25°	1481	1525	1567
30°	1452	1516	1569
35°	1419	1507	1575
40°	1389	1502	1588
45°	1351	1498	1605
50°	1315	1502	1634
55°	1284	1513	1670
60°	1240	1524	1717
65°	1191	1543	1769
70°	1129	1564	1840
75°	1012	1586	1900
80°	852	1591	1725
85°	632	1203	1134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	3.1
10°-20°	298.5	8.9
20°-30°	451.9	13.5
30°-40°	546.6	16.3
40°-50°	577.0	17.2
50°-60°	544.1	16.3
60°-70°	448.6	13.4
70°-80°	294.3	8.8
80°-90°	80.9	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°	854.5	25.5
0°-40°	1401.1	41.9
0°-60°	2522.2	75.4
0°-90°	3346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1095	1095	1092	1099	1099	104
15°	1043	1049	1056	1068	1071	294
25°	951	963	979	1000	1006	438
35°	824	845	874	904	914	516
45°	677	707	751	791	804	522
55°	522	559	615	661	679	465
65°	356	399	462	511	530	352
75°	186	233	291	337	348	196
85°	39	67	74	72	70	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.1	1099.1	1099.1	1099.1	1099.1
2.5°	1100.1	1099.1	1094.3	1100.6	1100.1
5°	1094.7	1094.7	1091.6	1099.1	1099.1
7.5°	1087.3	1087.8	1086.7	1095.3	1095.3
10°	1075.6	1077.7	1079.2	1088.9	1089.9
12.5°	1061.6	1065.4	1068.5	1080.4	1081.5
15°	1043.4	1049.4	1056.3	1068.5	1070.8
17.5°	1024.7	1031.7	1039.2	1055.3	1057.9
20°	1002.3	1010.3	1022.6	1038.7	1042.9
22.5°	977.2	988.4	1001.2	1020.5	1025.8
25°	951.0	962.7	979.3	999.6	1006.0
27.5°	922.7	936.5	955.3	978.8	985.7
30°	891.1	907.1	930.2	955.3	962.7
32.5°	857.9	876.7	902.3	930.2	938.6
35°	823.8	845.1	874.5	904.5	914.1
37.5°	790.0	811.4	846.2	877.8	886.8
40°	753.7	777.2	815.2	848.9	861.7
42.5°	715.2	743.1	783.1	820.6	832.8
45°	676.8	707.2	750.6	790.6	804.0
47.5°	637.7	671.4	719.0	759.6	775.1
50°	598.7	634.5	684.2	728.0	744.1
52.5°	559.1	596.6	650.6	697.0	711.5
55°	521.8	558.6	614.8	660.7	678.9
57.5°	478.4	520.1	579.4	626.0	643.6
60°	439.4	480.1	540.0	589.1	608.3
62.5°	397.1	438.8	501.9	551.1	569.8
65°	356.5	399.4	461.9	511.1	529.7
67.5°	312.7	357.7	421.8	469.4	487.6
70°	273.7	316.0	379.0	427.7	445.9
72.5°	226.1	274.3	334.6	382.7	402.5
75°	185.5	233.0	290.8	336.8	348.5
77.5°	142.7	190.3	247.5	277.4	285.4
80°	104.8	149.6	195.7	211.7	212.2
82.5°	70.6	110.2	136.4	144.4	143.3
85°	39.0	67.3	74.3	72.1	70.0
87.5°	16.1	22.4	18.2	12.8	10.1
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)