

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: P732181

Luminaire Tested: **24CZ2-35HE-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-SQR-B2750-W2D-2700K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

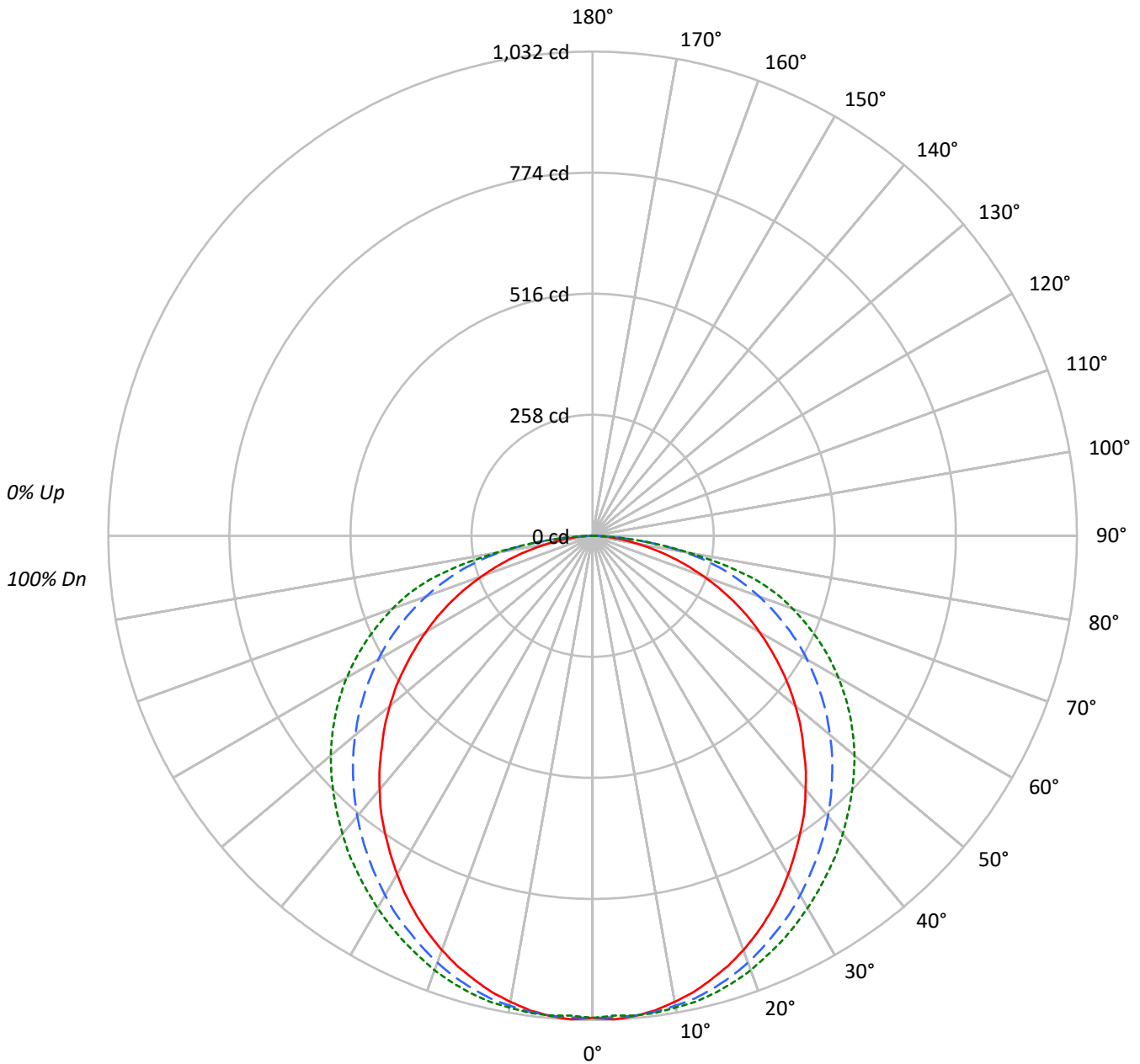
Lumens per Lamp: N/A
Luminaire Lumens: 3215.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
Input Voltage (V): NR
Input Current (A_{in}): 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	89	86	84	82				82
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67				67
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47				47
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41				41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35				35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28				28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25				25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1450	1450	1450
5°	1456	1454	1454
10°	1445	1458	1464
15°	1430	1458	1474
20°	1411	1454	1480
25°	1387	1447	1485
30°	1358	1441	1493
35°	1330	1438	1507
40°	1301	1438	1528
45°	1267	1441	1558
50°	1238	1450	1599
55°	1202	1466	1648
60°	1160	1489	1708
65°	1109	1517	1780
70°	1030	1555	1871
75°	932	1609	1957
80°	785	1613	1682
85°	601	1219	1219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	3.0
10°-20°	280.7	8.7
20°-30°	426.3	13.3
30°-40°	518.5	16.1
40°-50°	552.1	17.2
50°-60°	525.8	16.4
60°-70°	439.7	13.7
70°-80°	293.2	9.1
80°-90°	81.1	2.5
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°	804.5	25.0
0°-40°	1323.1	41.2
0°-60°	2401.0	74.7
0°-90°	3215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3215.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1028	1021	1027	1027	1027	97
15°	979	981	998	1005	1009	276
25°	891	902	929	945	953	410
35°	772	794	834	862	875	483
45°	635	669	722	762	780	491
55°	488	531	596	648	670	437
65°	332	381	454	511	533	328
75°	171	225	295	345	359	181
85°	37	69	75	74	75	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1031.9	1024.4	1027.6	1027.6	1023.5
5°	1027.6	1021.3	1026.6	1026.6	1026.6
7.5°	1020.3	1014.9	1023.5	1025.5	1025.5
10°	1008.6	1006.5	1017.1	1020.3	1021.3
12.5°	995.9	994.8	1009.7	1013.8	1017.1
15°	978.8	981.0	998.0	1005.4	1008.6
17.5°	960.8	965.0	984.2	994.8	998.0
20°	939.6	945.9	968.3	978.8	985.3
22.5°	916.3	925.8	949.1	961.8	969.3
25°	890.7	902.3	929.0	944.8	953.4
27.5°	863.2	878.1	908.8	926.8	935.3
30°	833.3	850.3	884.4	905.6	916.3
32.5°	802.6	822.7	860.0	883.3	896.0
35°	771.8	794.2	834.5	862.0	874.7
37.5°	741.0	763.3	808.0	837.6	853.6
40°	706.0	732.5	780.4	813.2	829.2
42.5°	672.1	700.6	751.7	787.7	804.8
45°	634.8	668.9	721.9	762.3	780.4
47.5°	600.9	634.8	692.2	734.7	754.8
50°	563.8	599.8	660.3	707.1	728.4
52.5°	527.6	564.9	628.5	678.4	699.7
55°	488.4	530.8	595.6	647.6	669.9
57.5°	449.1	494.8	561.5	615.8	638.1
60°	410.9	457.5	527.6	581.8	605.1
62.5°	372.7	419.3	492.6	547.7	570.1
65°	332.2	381.1	454.3	510.6	533.0
67.5°	291.9	342.9	416.1	472.4	493.7
70°	249.5	303.7	376.9	432.1	453.4
72.5°	210.3	264.4	336.5	390.7	410.9
75°	170.9	225.0	295.1	345.1	358.9
77.5°	132.7	186.8	249.5	282.4	285.6
80°	96.6	147.6	198.5	208.1	207.0
82.5°	64.7	110.4	137.0	138.0	141.1
85°	37.1	69.0	75.3	74.4	75.3
87.5°	14.9	24.4	21.2	15.9	15.9
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)