

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: P881186

Luminaire Tested: **24CZ2-40VHE-RDP-UNV-B40**

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: P881186
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: 24CZ2-40VHE-RDP-UNV-B40
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

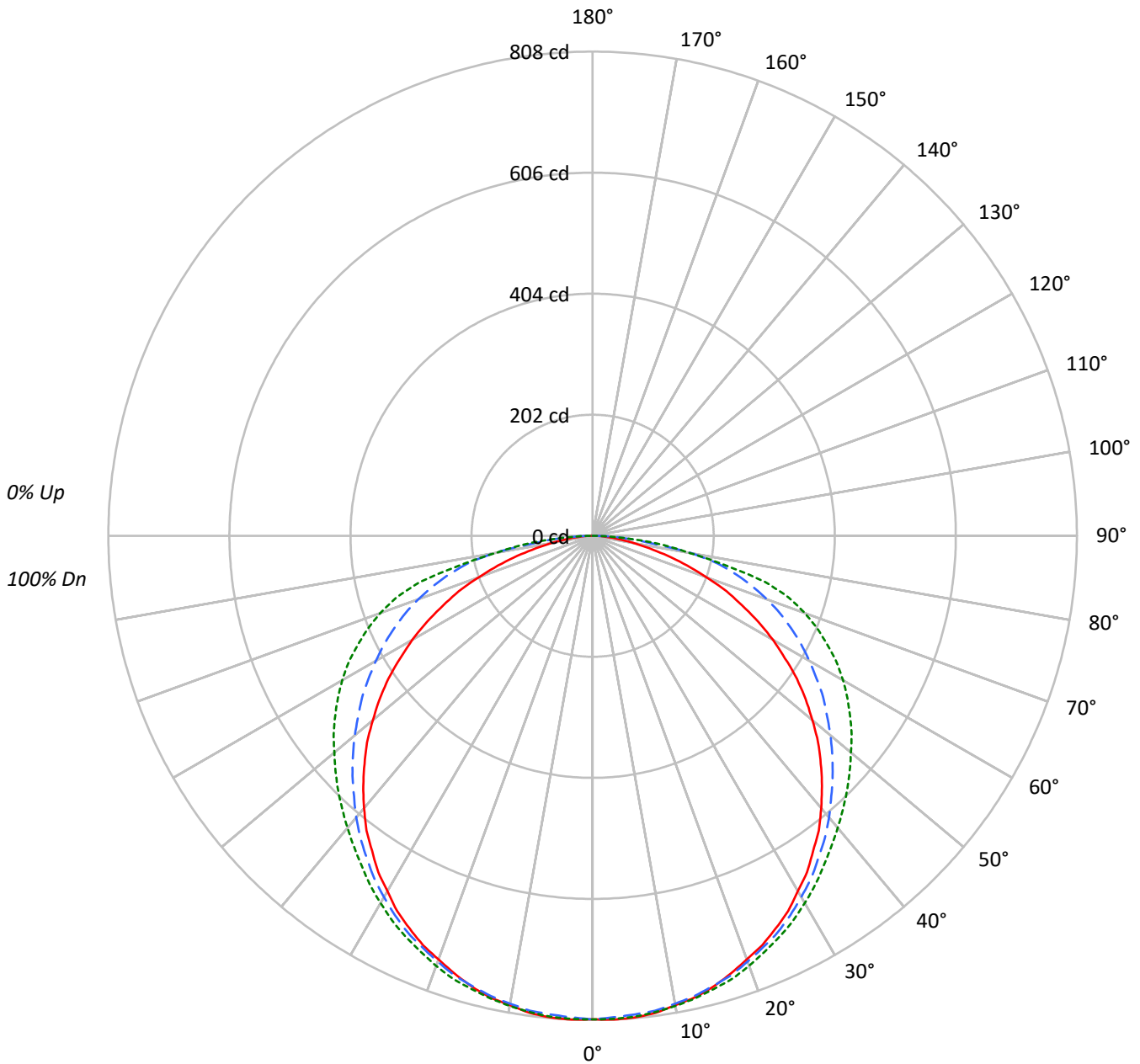
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2566.0 lumens
Efficiency: N/A
Efficacy: 85.5 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): 30
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	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°	1139	1139	1139
5°	1143	1136	1141
10°	1140	1136	1142
15°	1138	1136	1144
20°	1130	1135	1147
25°	1126	1138	1150
30°	1116	1135	1153
35°	1105	1131	1158
40°	1093	1130	1172
45°	1075	1130	1199
50°	1051	1137	1235
55°	1024	1156	1290
60°	981	1178	1361
65°	918	1220	1445
70°	835	1276	1554
75°	708	1347	1624
80°	558	1355	1313
85°	413	1030	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.0
10°-20°	220.3	8.6
20°-30°	336.9	13.1
30°-40°	411.8	16.0
40°-50°	438.9	17.1
50°-60°	419.7	16.4
60°-70°	355.5	13.9
70°-80°	238.9	9.3
80°-90°	67.4	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°	633.7	24.7
0°-40°	1045.5	40.7
0°-60°	1904.1	74.2
0°-90°	2566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	807	806	802	806	806	77
15°	779	779	778	784	783	220
25°	723	725	730	737	738	333
35°	641	646	657	669	672	402
45°	538	547	566	591	601	415
55°	416	431	470	507	524	371
65°	275	303	365	414	433	273
75°	130	177	247	289	298	139
85°	26	52	64	69	71	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.0	807.0	807.0	807.0	807.0
2.5°	808.2	808.2	804.4	807.0	807.0
5°	807.0	805.7	801.9	805.7	805.7
7.5°	803.1	801.9	799.3	803.1	801.9
10°	795.5	795.5	792.9	796.8	796.8
12.5°	789.1	787.8	786.6	791.7	790.5
15°	778.9	778.9	777.6	784.0	782.7
17.5°	766.2	767.5	768.8	773.9	775.2
20°	752.2	754.8	756.0	763.7	763.7
22.5°	739.5	740.7	743.3	750.9	750.9
25°	723.0	725.4	730.5	736.9	738.3
27.5°	706.3	707.7	714.0	723.0	724.2
30°	684.7	688.5	696.2	706.3	707.7
32.5°	665.7	669.4	678.3	688.5	691.1
35°	641.4	646.5	656.7	669.4	672.0
37.5°	619.8	623.5	636.3	650.4	654.1
40°	593.2	600.7	613.5	630.0	636.3
42.5°	566.4	574.1	589.4	610.9	618.4
45°	538.4	547.3	566.4	590.6	600.7
47.5°	510.4	520.6	542.3	570.2	581.7
50°	478.5	491.3	518.0	549.8	562.6
52.5°	448.0	463.3	492.5	528.2	544.7
55°	416.1	431.4	469.7	506.6	524.4
57.5°	380.6	400.8	443.0	485.0	504.0
60°	347.5	366.5	417.5	463.3	482.3
62.5°	311.8	337.3	392.0	440.3	459.5
65°	274.9	303.0	365.3	413.6	432.8
67.5°	241.9	272.4	338.6	386.9	405.9
70°	202.3	240.5	309.3	357.6	376.7
72.5°	165.4	207.4	278.8	325.9	343.6
75°	129.8	176.9	247.0	289.0	297.9
77.5°	96.8	146.3	213.8	231.7	225.3
80°	68.7	117.2	166.7	157.7	161.6
82.5°	44.6	89.1	103.2	117.2	120.8
85°	25.5	52.2	63.6	68.7	71.3
87.5°	11.4	19.1	25.5	25.5	24.2
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)