

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: P880861

Luminaire Tested: **24CZ2-40VHE-RDP-B2750-W2D-5000K**

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: P880861
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-B2750-W2D-5000K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

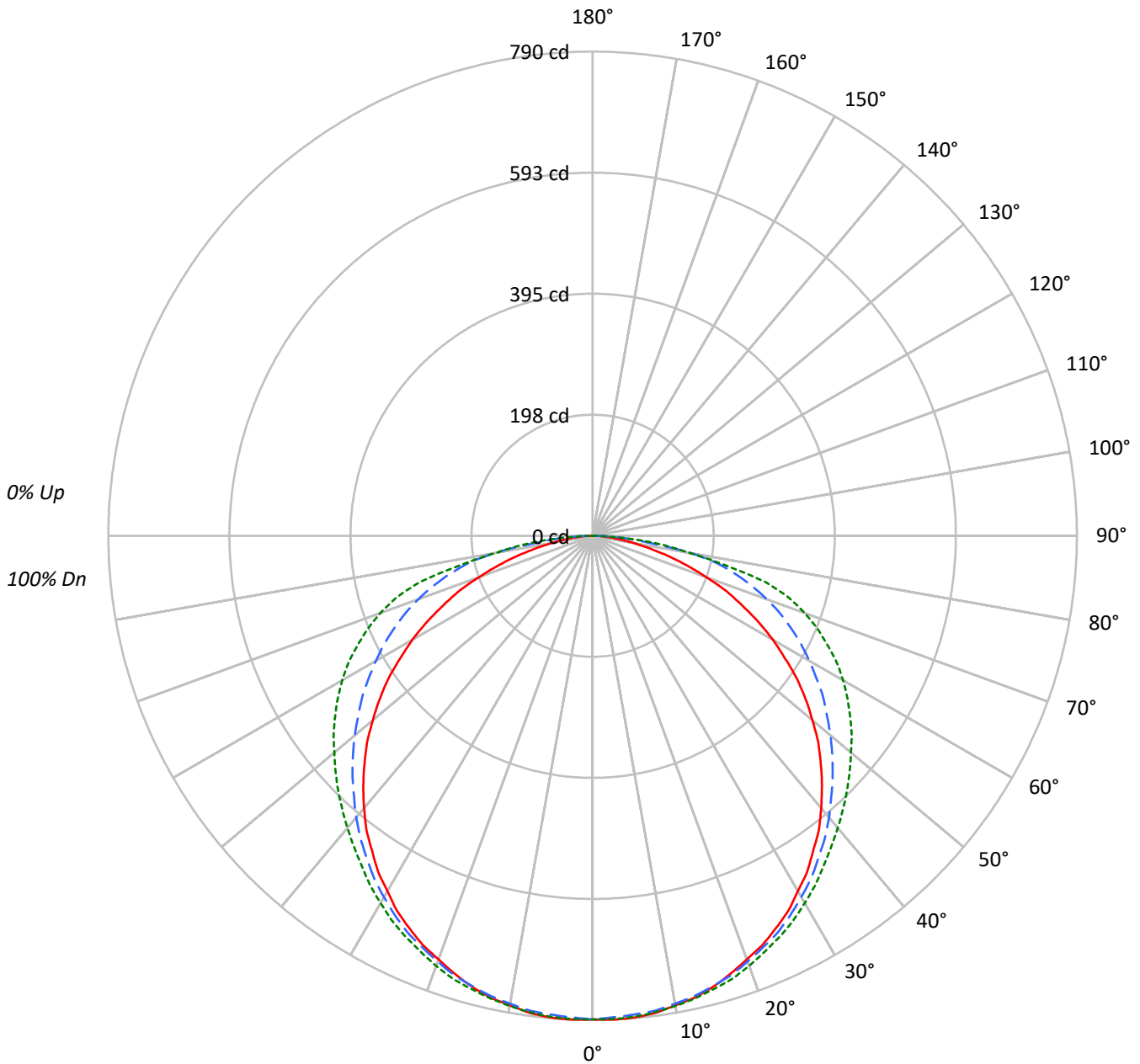
Lumens per Lamp: N/A
Luminaire Lumens: 2509.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1114	1114	1114
5°	1118	1111	1116
10°	1115	1111	1117
15°	1113	1111	1118
20°	1105	1110	1122
25°	1101	1112	1124
30°	1091	1109	1128
35°	1081	1106	1132
40°	1069	1105	1146
45°	1051	1105	1172
50°	1027	1112	1208
55°	1001	1130	1262
60°	959	1152	1331
65°	898	1193	1413
70°	816	1248	1520
75°	692	1317	1588
80°	546	1325	1284
85°	403	1007	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.0
10°-20°	215.4	8.6
20°-30°	329.4	13.1
30°-40°	402.7	16.0
40°-50°	429.2	17.1
50°-60°	410.3	16.4
60°-70°	347.6	13.9
70°-80°	233.6	9.3
80°-90°	65.9	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°	619.7	24.7
0°-40°	1022.3	40.7
0°-60°	1861.8	74.2
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	789	788	784	788	788	75
15°	762	762	760	767	765	215
25°	707	709	714	720	722	326
35°	627	632	642	654	657	393
45°	526	535	554	578	587	406
55°	407	422	459	495	513	362
65°	269	296	357	404	423	267
75°	127	173	242	282	291	136
85°	25	51	62	67	70	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789.1	789.1	789.1	789.1	789.1
2.5°	790.3	790.3	786.5	789.1	789.1
5°	789.1	787.8	784.1	787.8	787.8
7.5°	785.3	784.1	781.5	785.3	784.1
10°	777.9	777.9	775.3	779.1	779.1
12.5°	771.6	770.3	769.1	774.1	772.9
15°	761.6	761.6	760.4	766.6	765.4
17.5°	749.2	750.4	751.7	756.7	757.9
20°	735.5	738.0	739.2	746.8	746.8
22.5°	723.1	724.3	726.8	734.2	734.2
25°	706.9	709.3	714.3	720.5	721.9
27.5°	690.6	692.0	698.2	706.9	708.1
30°	669.5	673.2	680.8	690.6	692.0
32.5°	650.9	654.5	663.3	673.2	675.8
35°	627.2	632.2	642.1	654.5	657.1
37.5°	606.0	609.7	622.2	635.9	639.6
40°	580.0	587.3	599.8	616.0	622.2
42.5°	553.8	561.3	576.3	597.3	604.7
45°	526.4	535.2	553.8	577.5	587.3
47.5°	499.1	509.1	530.2	557.6	568.7
50°	467.9	480.4	506.5	537.6	550.1
52.5°	438.1	453.0	481.6	516.5	532.6
55°	406.9	421.8	459.2	495.3	512.7
57.5°	372.1	391.9	433.1	474.2	492.8
60°	339.8	358.4	408.2	453.0	471.6
62.5°	304.9	329.8	383.3	430.6	449.3
65°	268.8	296.3	357.2	404.4	423.1
67.5°	236.5	266.4	331.0	378.3	396.9
70°	197.8	235.1	302.5	349.6	368.3
72.5°	161.7	202.8	272.6	318.6	336.0
75°	126.9	172.9	241.5	282.5	291.3
77.5°	94.7	143.0	209.0	226.5	220.3
80°	67.2	114.6	163.0	154.2	158.0
82.5°	43.6	87.1	100.9	114.6	118.1
85°	24.9	51.0	62.2	67.2	69.8
87.5°	11.2	18.7	24.9	24.9	23.7
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)