

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: P880832

Luminaire Tested: **24CZ2-35VHE-RDP-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: P880832  
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: 24CZ2-35VHE-RDP-B2750-W2D-2700K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

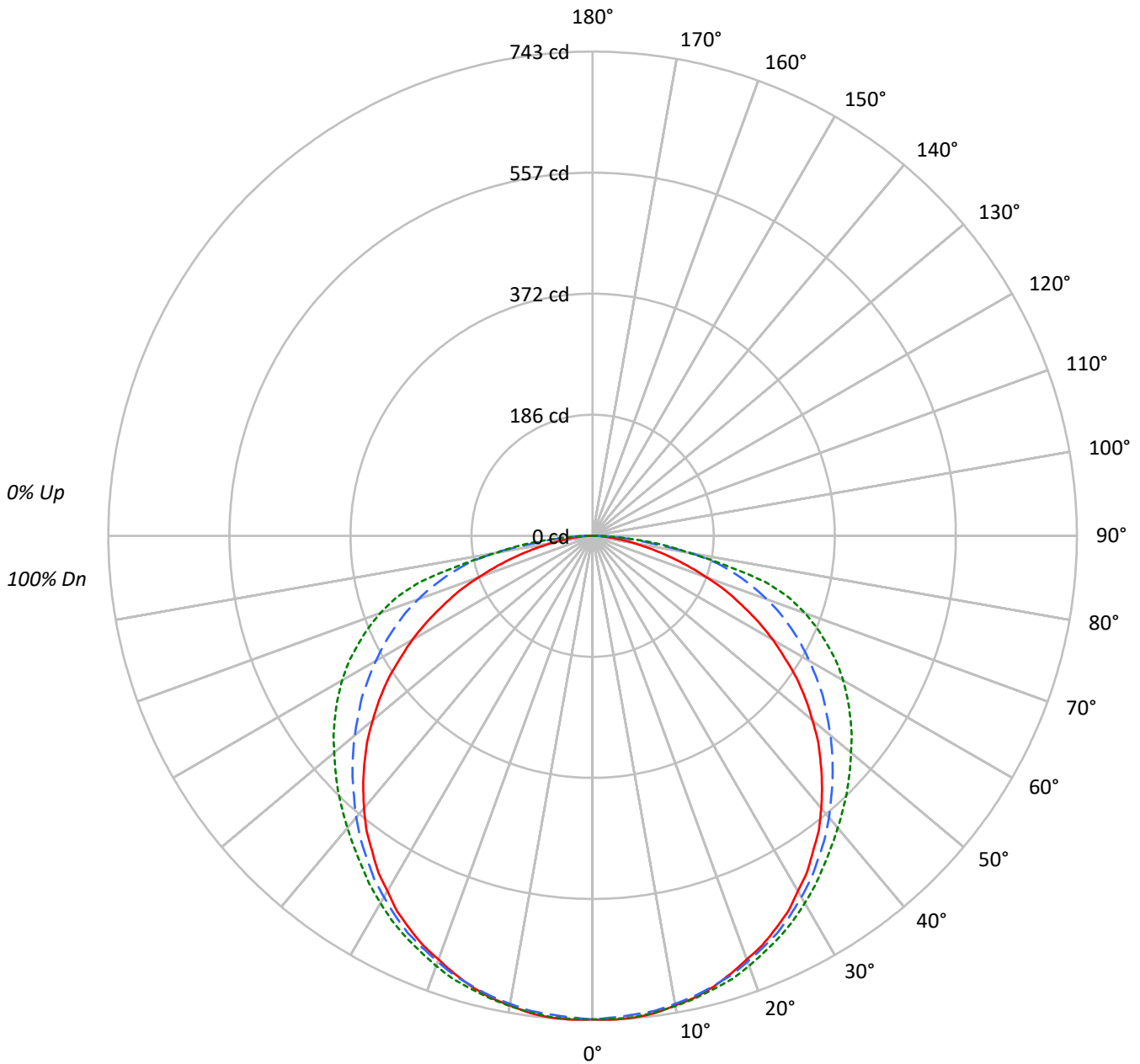
Lumens per Lamp: N/A  
Luminaire Lumens: 2360.0 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	1047	1047	1047
5°	1051	1045	1050
10°	1049	1045	1050
15°	1047	1045	1052
20°	1039	1044	1055
25°	1035	1046	1057
30°	1026	1043	1061
35°	1016	1041	1065
40°	1005	1039	1078
45°	988	1040	1103
50°	966	1046	1136
55°	942	1063	1187
60°	902	1084	1252
65°	844	1122	1329
70°	768	1174	1430
75°	651	1238	1494
80°	514	1246	1208
85°	379	947	1062



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.4	3.0
10°-20°	202.6	8.6
20°-30°	309.8	13.1
30°-40°	378.8	16.0
40°-50°	403.7	17.1
50°-60°	386.0	16.4
60°-70°	327.0	13.9
70°-80°	219.8	9.3
80°-90°	62.0	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°	582.9	24.7
0°-40°	961.6	40.7
0°-60°	1751.3	74.2
0°-90°	2360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2360.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	742	741	738	741	741	71
15°	716	716	715	721	720	202
25°	665	667	672	678	679	306
35°	590	595	604	616	618	370
45°	495	503	521	543	552	382
55°	383	397	432	466	482	341
65°	253	279	336	380	398	251
75°	119	163	227	266	274	128
85°	23	48	58	63	66	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	742.2	742.2	742.2	742.2	742.2
2.5°	743.3	743.3	739.8	742.2	742.2
5°	742.2	741.1	737.5	741.1	741.1
7.5°	738.7	737.5	735.1	738.7	737.5
10°	731.7	731.7	729.3	732.8	732.8
12.5°	725.7	724.6	723.4	728.1	727.0
15°	716.4	716.4	715.2	721.0	719.9
17.5°	704.7	705.8	707.1	711.8	712.9
20°	691.8	694.2	695.3	702.4	702.4
22.5°	680.1	681.3	683.7	690.6	690.6
25°	664.9	667.2	671.9	677.7	679.0
27.5°	649.6	650.9	656.7	664.9	666.1
30°	629.7	633.3	640.3	649.6	650.9
32.5°	612.2	615.7	623.9	633.3	635.7
35°	589.9	594.6	604.0	615.7	618.1
37.5°	570.0	573.5	585.3	598.2	601.6
40°	545.6	552.4	564.2	579.4	585.3
42.5°	520.9	528.0	542.0	561.8	568.8
45°	495.2	503.4	520.9	543.2	552.4
47.5°	469.5	478.8	498.7	524.4	535.0
50°	440.1	451.9	476.4	505.7	517.5
52.5°	412.1	426.1	453.0	485.8	501.0
55°	382.7	396.8	432.0	465.9	482.3
57.5°	350.0	368.6	407.4	446.0	463.5
60°	319.6	337.1	384.0	426.1	443.6
62.5°	286.8	310.2	360.5	405.0	422.6
65°	252.8	278.7	335.9	380.4	398.0
67.5°	222.4	250.6	311.4	355.8	373.3
70°	186.1	221.2	284.5	328.9	346.5
72.5°	152.1	190.8	256.4	299.7	316.1
75°	119.3	162.7	227.1	265.8	274.0
77.5°	89.0	134.5	196.6	213.1	207.2
80°	63.2	107.8	153.3	145.1	148.6
82.5°	41.0	82.0	94.9	107.8	111.1
85°	23.4	48.0	58.5	63.2	65.6
87.5°	10.5	17.6	23.4	23.4	22.3
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)