

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: P276987

Luminaire Tested: **24CZ2-35-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276987  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-35-RDP-UNV-L82765-W2A1-U-5500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2353.5 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

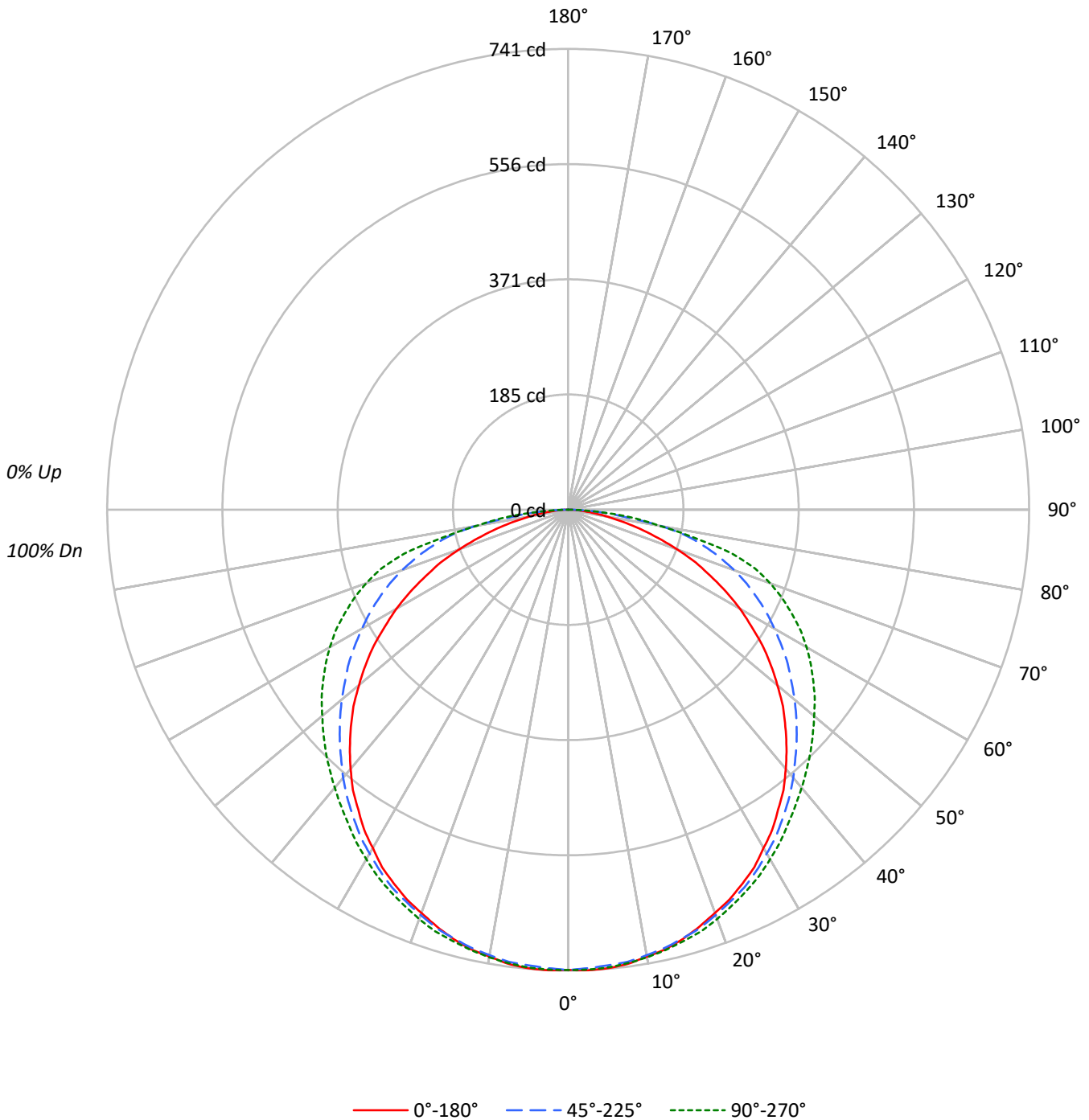
Input Watts (W): 26.784  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P276987

CATALOG NUMBER: 24CZ2-35-RDP-UNV-L82765-W2A1-U-5500K

### Luminous Intensity Polar Plot





TEST NUMBER: P276987

CATALOG NUMBER: 24CZ2-35-RDP-UNV-L82765-W2A1-U-5500K

**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	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°	996	996	996
5°	1000	993	998
10°	997	994	998
15°	995	993	1000
20°	988	993	1003
25°	984	995	1005
30°	976	992	1008
35°	966	989	1012
40°	955	988	1025
45°	940	989	1048
50°	919	994	1080
55°	895	1011	1128
60°	858	1030	1190
65°	803	1067	1264
70°	730	1116	1359
75°	619	1177	1420
80°	488	1185	1149
85°	360	902	1010



TEST NUMBER: P276987

CATALOG NUMBER: 24CZ2-35-RDP-UNV-L82765-W2A1-U-5500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	3.0
10°-20°	202.0	8.6
20°-30°	309.0	13.1
30°-40°	377.7	16.0
40°-50°	402.6	17.1
50°-60°	384.9	16.4
60°-70°	326.1	13.9
70°-80°	219.1	9.3
80°-90°	61.8	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°	581.2	24.7
0°-40°	958.9	40.7
0°-60°	1746.4	74.2
0°-90°	2353.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2353.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	740	739	735	739	739	70
15°	714	714	713	719	718	201
25°	663	665	670	676	677	306
35°	588	593	602	614	616	369
45°	494	502	520	542	551	381
55°	382	396	431	465	481	340
65°	252	278	335	379	397	250
75°	119	162	226	265	273	127
85°	23	48	58	63	65	29
90°	0	0	0	0	0	



TEST NUMBER: P276987

CATALOG NUMBER: 24CZ2-35-RDP-UNV-L82765-W2A1-U-5500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	740.1	740.1	740.1	740.1	740.1
2.5°	741.3	741.3	737.8	740.1	740.1
5°	740.1	738.9	735.4	738.9	738.9
7.5°	736.6	735.4	733.1	736.6	735.4
10°	729.6	729.6	727.3	730.8	730.8
12.5°	723.8	722.6	721.4	726.1	724.9
15°	714.4	714.4	713.2	719.1	717.9
17.5°	702.7	703.9	705.1	709.7	710.9
20°	689.9	692.2	693.4	700.4	700.4
22.5°	678.2	679.4	681.7	688.7	688.7
25°	663.1	665.4	670.1	675.9	677.1
27.5°	647.9	649.0	654.9	663.1	664.2
30°	628.0	631.5	638.5	647.9	649.0
32.5°	610.5	614.0	622.2	631.5	633.9
35°	588.3	593.0	602.4	614.0	616.4
37.5°	568.5	572.0	583.7	596.5	600.0
40°	544.0	551.0	562.7	577.8	583.7
42.5°	519.5	526.5	540.5	560.3	567.3
45°	493.8	502.0	519.5	541.6	551.0
47.5°	468.1	477.4	497.3	523.0	533.5
50°	438.9	450.6	475.1	504.3	516.0
52.5°	410.9	424.9	451.8	484.4	499.6
55°	381.7	395.7	430.8	464.6	480.9
57.5°	349.0	367.7	406.2	444.8	462.3
60°	318.7	336.2	382.9	424.9	442.4
62.5°	286.0	309.3	359.5	403.9	421.4
65°	252.1	277.8	335.0	379.4	396.9
67.5°	221.8	249.8	310.5	354.9	372.4
70°	185.6	220.6	283.7	328.0	345.5
72.5°	151.8	190.3	255.6	298.8	315.2
75°	119.1	162.3	226.5	265.0	273.2
77.5°	88.7	134.2	196.1	212.5	206.6
80°	63.0	107.4	152.9	144.8	148.3
82.5°	40.9	81.7	94.6	107.4	110.9
85°	23.3	47.9	58.4	63.0	65.4
87.5°	10.5	17.5	23.3	23.3	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)