

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: P275434

Luminaire Tested: **14CZ2-35-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2963.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

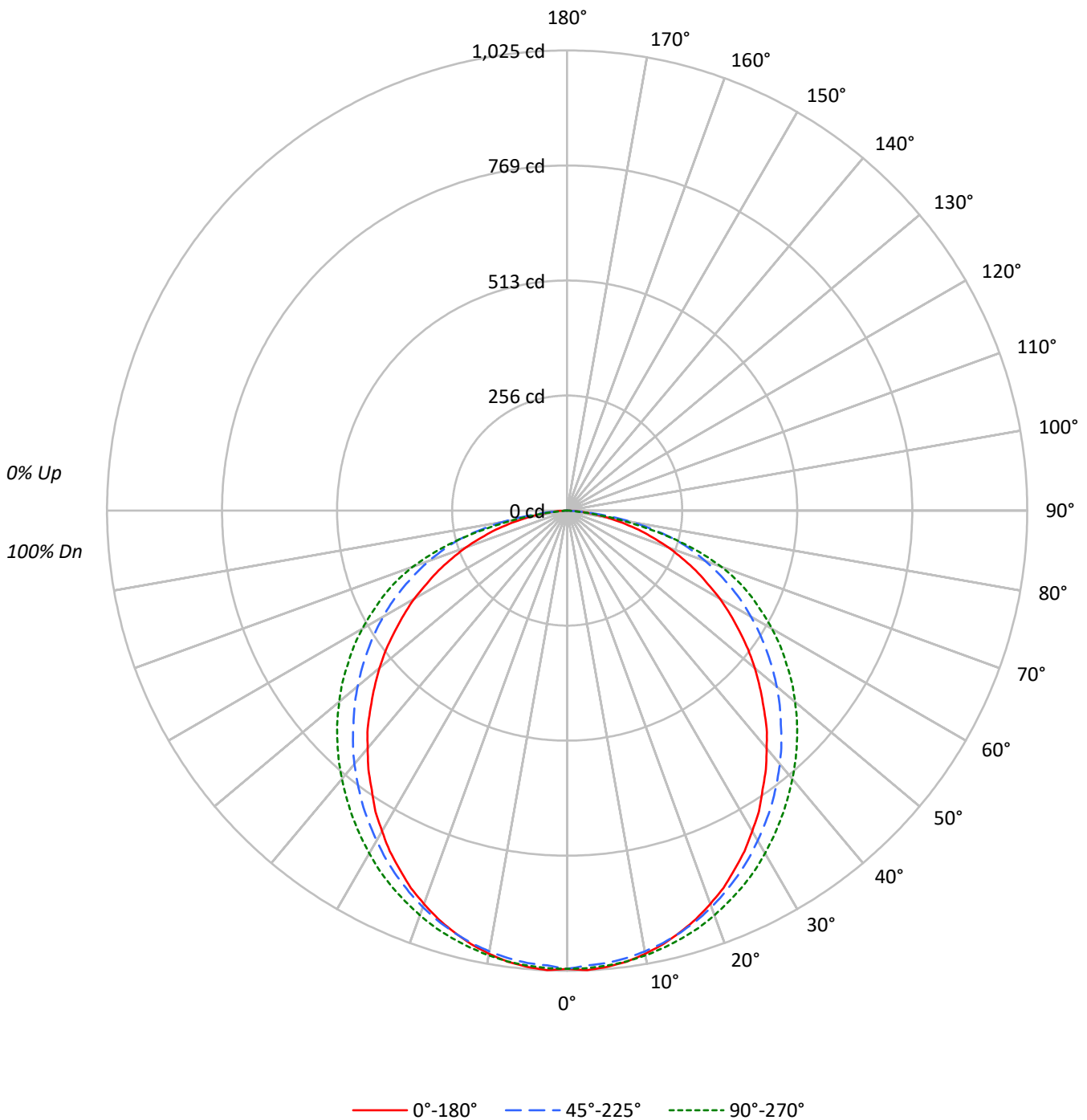
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275434

CATALOG NUMBER: 14CZ2-35-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P275434

CATALOG NUMBER: 14CZ2-35-UNV-L93050-W2A1-U-3500K

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	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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2747	2747	2747
5°	2756	2732	2749
10°	2739	2724	2749
15°	2709	2711	2748
20°	2670	2692	2747
25°	2619	2666	2744
30°	2562	2638	2739
35°	2494	2615	2737
40°	2428	2590	2741
45°	2353	2562	2756
50°	2285	2550	2774
55°	2198	2542	2799
60°	2119	2546	2837
65°	2011	2553	2882
70°	1887	2573	2880
75°	1710	2596	2603
80°	1402	2242	1853
85°	1041	1062	429



TEST NUMBER: P275434

CATALOG NUMBER: 14CZ2-35-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	3.3
10°-20°	275.9	9.3
20°-30°	415.7	14.0
30°-40°	498.8	16.8
40°-50°	519.9	17.5
50°-60°	481.3	16.2
60°-70°	388.9	13.1
70°-80°	237.1	8.0
80°-90°	49.0	1.7
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°	788.2	26.6
0°-40°	1286.9	43.4
0°-60°	2288.1	77.2
0°-90°	2963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1020	1018	1012	1019	1018	97
15°	972	973	973	986	986	274
25°	882	887	898	920	924	407
35°	759	771	796	825	833	476
45°	618	637	673	711	724	478
55°	468	493	542	584	597	420
65°	316	347	401	441	453	312
75°	164	201	250	254	250	173
85°	34	50	34	19	14	41
90°	0	0	0	0	0	



TEST NUMBER: P275434

CATALOG NUMBER: 14CZ2-35-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.8	1020.8	1020.8	1020.8	1020.8
2.5°	1024.7	1021.4	1014.2	1021.4	1020.1
5°	1020.1	1017.5	1011.5	1018.8	1017.5
7.5°	1013.5	1010.9	1005.6	1014.2	1012.8
10°	1002.3	1000.9	997.0	1006.9	1006.2
12.5°	989.1	988.4	986.4	997.6	997.0
15°	972.5	973.2	973.2	986.4	986.4
17.5°	954.0	955.4	958.0	972.5	974.5
20°	932.2	934.9	940.2	956.7	959.3
22.5°	909.8	911.7	919.7	939.5	942.1
25°	882.0	887.3	897.9	920.3	924.3
27.5°	855.6	860.2	874.8	897.9	904.5
30°	824.5	831.8	849.0	874.1	881.4
32.5°	794.8	802.7	822.6	851.6	858.2
35°	759.1	771.0	796.1	825.2	833.1
37.5°	726.8	738.0	766.4	798.1	807.4
40°	691.1	705.0	737.3	771.0	780.3
42.5°	658.0	671.3	706.3	740.6	753.2
45°	618.4	636.9	673.2	710.9	724.1
47.5°	582.1	600.6	642.2	682.5	694.4
50°	545.7	565.5	609.2	650.8	662.7
52.5°	508.1	529.2	576.1	617.7	631.6
55°	468.4	492.9	541.8	584.0	596.6
57.5°	430.8	455.9	508.1	551.0	563.6
60°	393.8	419.5	473.1	514.0	527.2
62.5°	352.8	383.2	438.7	479.0	488.9
65°	315.8	346.9	401.0	441.3	452.6
67.5°	276.8	310.5	364.7	401.7	412.3
70°	239.8	274.8	327.0	361.4	366.0
72.5°	200.2	235.9	288.7	310.5	310.5
75°	164.5	200.8	249.7	253.7	250.4
77.5°	125.5	165.8	197.5	189.6	181.7
80°	90.5	130.2	144.7	130.2	119.6
82.5°	60.8	94.5	87.2	69.4	61.4
85°	33.7	50.2	34.4	19.2	13.9
87.5°	12.6	11.2	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)