

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: P276865

Luminaire Tested: **24CZ2-35-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276865
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-L93050-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2113.8 lumens
Efficiency: N/A
Efficacy: 77.9 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

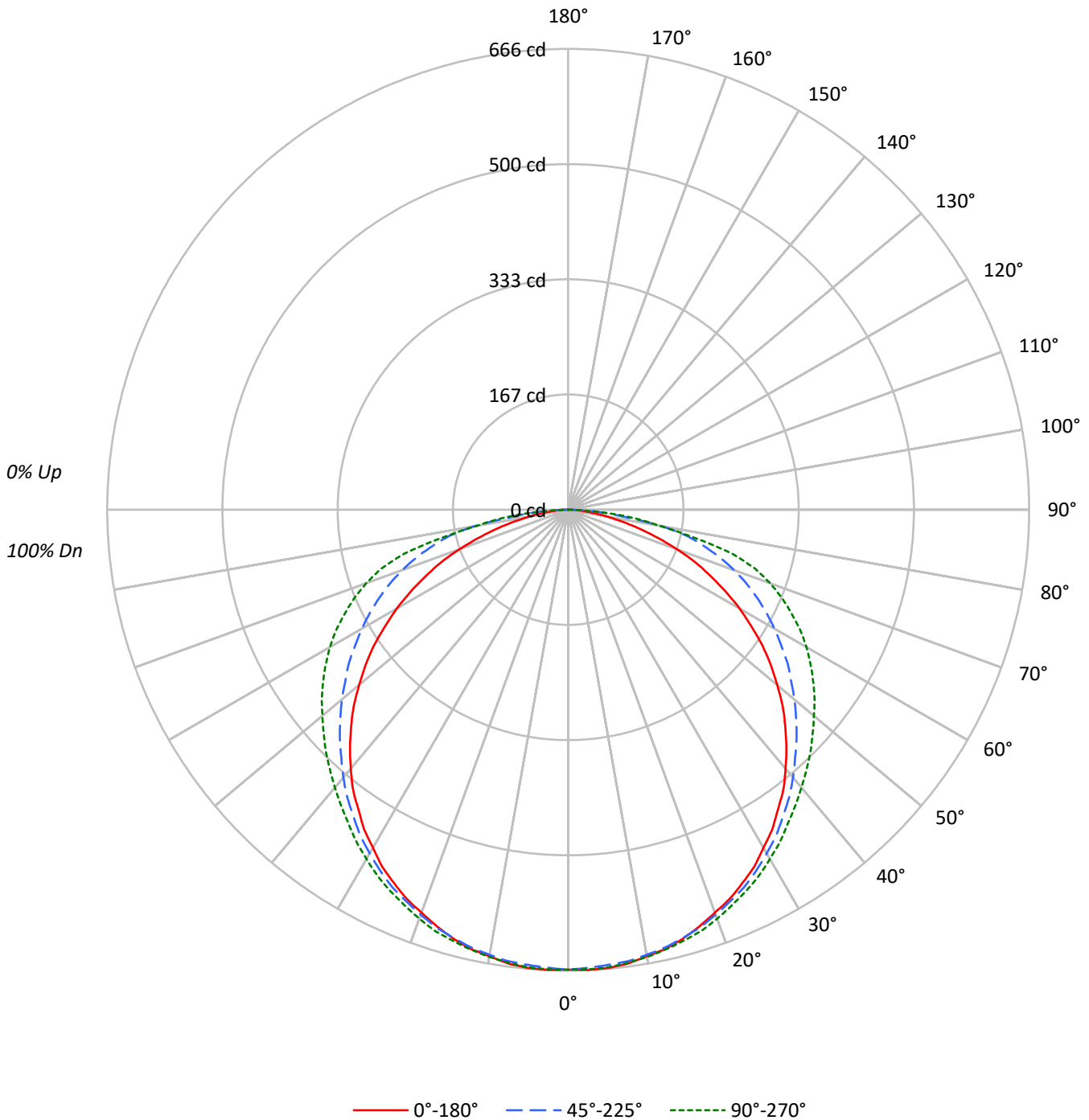
Input Watts (W): 27.13368
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	894	894	894
5°	898	892	896
10°	895	892	897
15°	894	892	898
20°	887	892	901
25°	884	893	903
30°	876	891	906
35°	868	889	909
40°	858	888	921
45°	844	888	942
50°	825	893	970
55°	804	908	1013
60°	770	925	1069
65°	721	958	1135
70°	656	1002	1221
75°	556	1057	1275
80°	439	1064	1032
85°	324	809	906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	3.0
10°-20°	181.5	8.6
20°-30°	277.5	13.1
30°-40°	339.2	16.0
40°-50°	361.6	17.1
50°-60°	345.7	16.4
60°-70°	292.9	13.9
70°-80°	196.8	9.3
80°-90°	55.5	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°	522.0	24.7
0°-40°	861.3	40.7
0°-60°	1568.6	74.2
0°-90°	2113.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	665	664	660	664	664	63
15°	642	642	641	646	645	181
25°	596	598	602	607	608	274
35°	528	533	541	552	554	331
45°	444	451	467	486	495	342
55°	343	355	387	417	432	305
65°	226	250	301	341	356	225
75°	107	146	203	238	245	114
85°	21	43	52	57	59	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.7	664.7	664.7	664.7	664.7
2.5°	665.8	665.8	662.6	664.7	664.7
5°	664.7	663.7	660.5	663.7	663.7
7.5°	661.6	660.5	658.4	661.6	660.5
10°	655.3	655.3	653.2	656.3	656.3
12.5°	650.0	649.0	647.9	652.1	651.1
15°	641.7	641.7	640.6	645.8	644.8
17.5°	631.2	632.2	633.3	637.5	638.5
20°	619.6	621.7	622.8	629.1	629.1
22.5°	609.1	610.2	612.3	618.6	618.6
25°	595.5	597.6	601.8	607.1	608.1
27.5°	581.9	582.9	588.2	595.5	596.6
30°	564.1	567.2	573.5	581.9	582.9
32.5°	548.3	551.5	558.8	567.2	569.3
35°	528.4	532.6	541.0	551.5	553.6
37.5°	510.6	513.7	524.2	535.8	538.9
40°	488.6	494.9	505.4	519.0	524.2
42.5°	466.6	472.8	485.4	503.3	509.5
45°	443.5	450.8	466.6	486.5	494.9
47.5°	420.4	428.8	446.6	469.7	479.1
50°	394.2	404.7	426.7	452.9	463.4
52.5°	369.1	381.6	405.7	435.1	448.7
55°	342.8	355.4	386.9	417.3	432.0
57.5°	313.5	330.3	364.9	399.5	415.2
60°	286.2	302.0	343.9	381.6	397.4
62.5°	256.9	277.8	322.9	362.8	378.5
65°	226.5	249.5	300.9	340.7	356.5
67.5°	199.2	224.4	278.9	318.7	334.5
70°	166.7	198.2	254.8	294.6	310.3
72.5°	136.3	170.9	229.6	268.4	283.1
75°	106.9	145.7	203.4	238.0	245.3
77.5°	79.7	120.6	176.1	190.8	185.6
80°	56.6	96.5	137.3	130.0	133.2
82.5°	36.7	73.4	84.9	96.5	99.6
85°	21.0	43.0	52.4	56.6	58.7
87.5°	9.4	15.7	21.0	21.0	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)