

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: P276985

Luminaire Tested: **24CZ2-35-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276985
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-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2298.8 lumens
Efficiency: N/A
Efficacy: 86.7 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

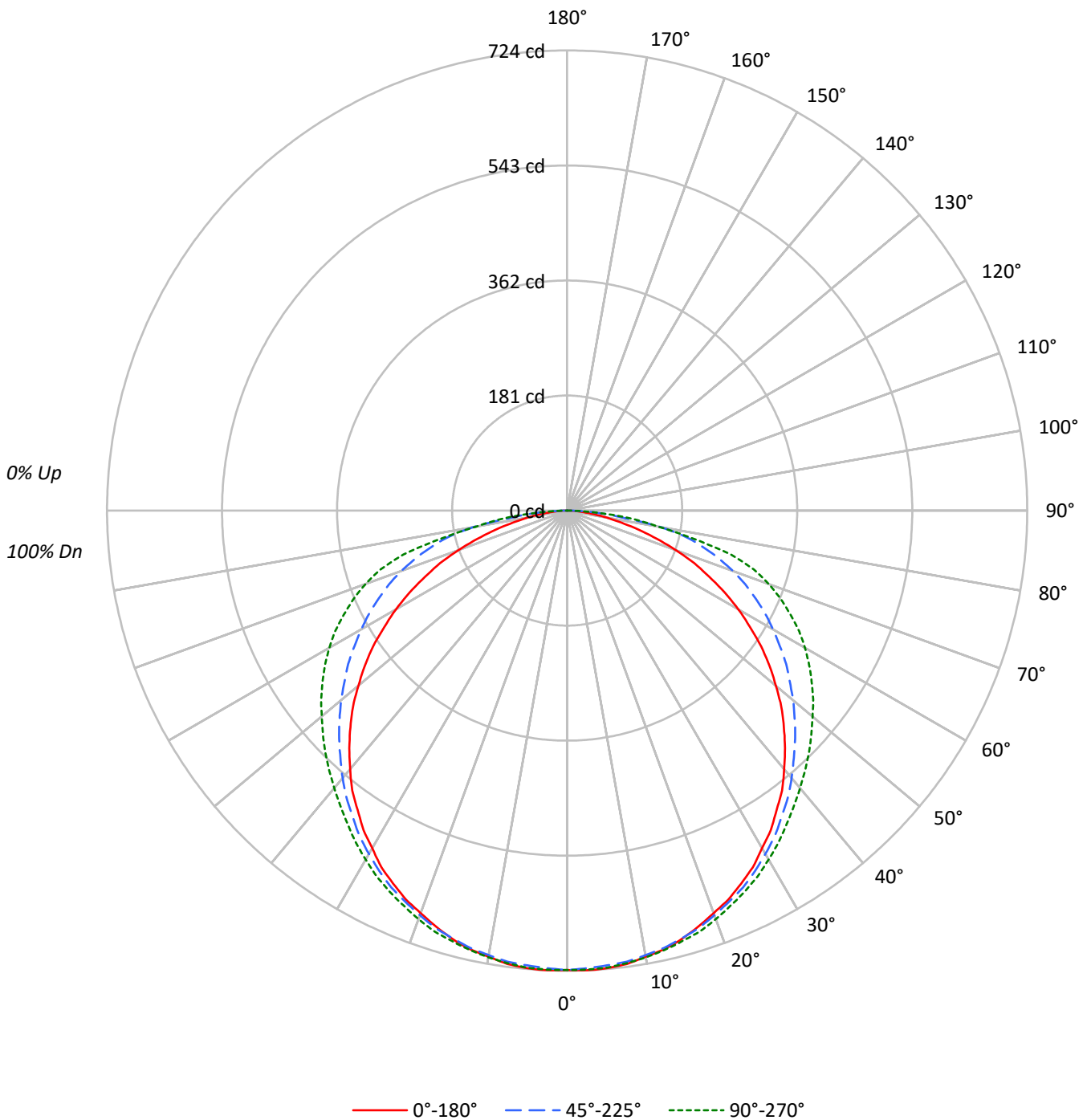
Input Watts (W): 26.505
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	973	973	973
5°	976	970	975
10°	974	970	975
15°	972	970	977
20°	965	970	980
25°	961	972	982
30°	953	969	985
35°	944	966	989
40°	933	965	1001
45°	918	965	1024
50°	897	971	1055
55°	875	987	1102
60°	838	1006	1163
65°	784	1042	1234
70°	713	1090	1328
75°	605	1150	1387
80°	477	1158	1122
85°	352	880	986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	3.0
10°-20°	197.4	8.6
20°-30°	301.8	13.1
30°-40°	368.9	16.0
40°-50°	393.2	17.1
50°-60°	376.0	16.4
60°-70°	318.5	13.9
70°-80°	214.1	9.3
80°-90°	60.4	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°	567.7	24.7
0°-40°	936.7	40.7
0°-60°	1705.8	74.2
0°-90°	2298.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2298.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	723	722	718	722	722	69
15°	698	698	697	702	701	197
25°	648	650	654	660	661	298
35°	575	579	588	600	602	360
45°	482	490	507	529	538	372
55°	373	386	421	454	470	332
65°	246	271	327	371	388	245
75°	116	158	221	259	267	125
85°	23	47	57	62	64	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	722.9	722.9	722.9	722.9	722.9
2.5°	724.0	724.0	720.6	722.9	722.9
5°	722.9	721.8	718.3	721.8	721.8
7.5°	719.5	718.3	716.1	719.5	718.3
10°	712.6	712.6	710.3	713.8	713.8
12.5°	706.9	705.8	704.6	709.2	708.1
15°	697.8	697.8	696.7	702.4	701.2
17.5°	686.4	687.5	688.7	693.2	694.4
20°	673.9	676.1	677.3	684.1	684.1
22.5°	662.5	663.6	665.9	672.7	672.7
25°	647.6	649.9	654.5	660.2	661.3
27.5°	632.8	634.0	639.7	647.6	648.8
30°	613.4	616.9	623.7	632.8	634.0
32.5°	596.3	599.7	607.7	616.9	619.1
35°	574.7	579.2	588.3	599.7	602.0
37.5°	555.3	558.7	570.1	582.6	586.1
40°	531.3	538.2	549.6	564.4	570.1
42.5°	507.4	514.2	527.9	547.3	554.1
45°	482.3	490.3	507.4	529.1	538.2
47.5°	457.2	466.3	485.7	510.8	521.1
50°	428.7	440.1	464.1	492.6	504.0
52.5°	401.4	415.0	441.3	473.2	488.0
55°	372.8	386.5	420.7	453.8	469.8
57.5°	340.9	359.2	396.8	434.4	451.5
60°	311.3	328.4	374.0	415.0	432.1
62.5°	279.4	302.2	351.2	394.5	411.6
65°	246.3	271.4	327.2	370.6	387.7
67.5°	216.6	244.0	303.3	346.6	363.7
70°	181.3	215.5	277.1	320.4	337.5
72.5°	148.2	185.9	249.7	291.9	307.9
75°	116.3	158.5	221.2	258.8	266.8
77.5°	86.7	131.1	191.6	207.5	201.8
80°	61.6	104.9	149.4	141.4	144.8
82.5°	39.9	79.8	92.4	104.9	108.3
85°	22.8	46.7	57.0	61.6	63.9
87.5°	10.3	17.1	22.8	22.8	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)