

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: P276986

Luminaire Tested: **24CZ2-35-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276986
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-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2329.9 lumens
Efficiency: N/A
Efficacy: 87.3 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

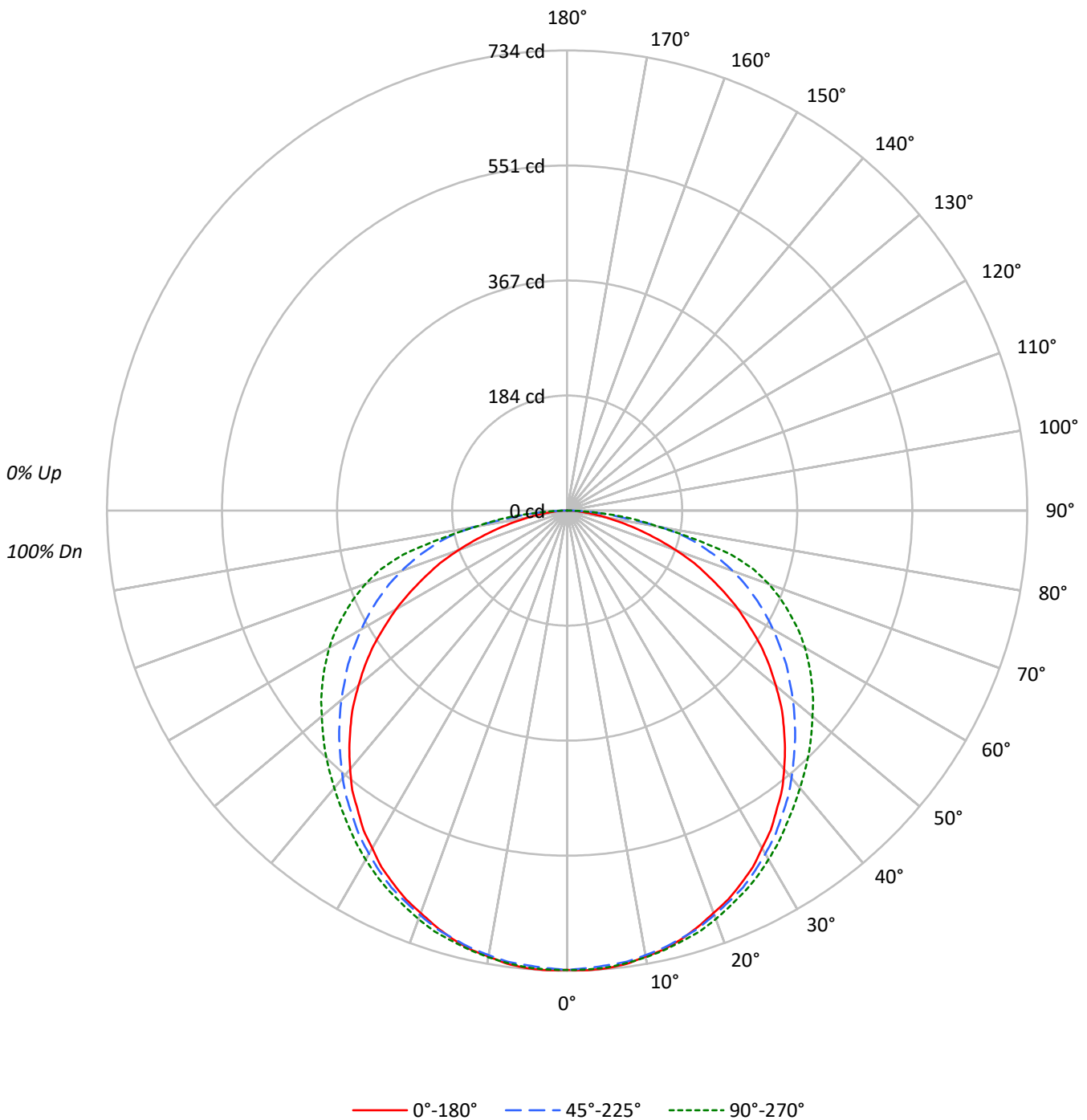
Input Watts (W): 26.691
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	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°	986	986	986
5°	990	983	988
10°	987	984	988
15°	985	984	990
20°	978	983	993
25°	974	985	995
30°	966	982	998
35°	957	979	1002
40°	946	978	1015
45°	930	979	1038
50°	909	985	1069
55°	886	1000	1117
60°	849	1020	1179
65°	795	1056	1251
70°	723	1105	1346
75°	613	1166	1406
80°	483	1173	1137
85°	357	892	999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.0
10°-20°	200.0	8.6
20°-30°	305.9	13.1
30°-40°	373.9	16.0
40°-50°	398.5	17.1
50°-60°	381.1	16.4
60°-70°	322.8	13.9
70°-80°	217.0	9.3
80°-90°	61.2	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°	575.4	24.7
0°-40°	949.4	40.7
0°-60°	1729.0	74.2
0°-90°	2329.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2329.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	733	732	728	732	732	70
15°	707	707	706	712	711	199
25°	656	659	663	669	670	303
35°	582	587	596	608	610	365
45°	489	497	514	536	546	377
55°	378	392	426	460	476	337
65°	250	275	332	376	393	248
75°	118	161	224	262	270	126
85°	23	47	58	62	65	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.7	732.7	732.7	732.7	732.7
2.5°	733.9	733.9	730.4	732.7	732.7
5°	732.7	731.5	728.1	731.5	731.5
7.5°	729.2	728.1	725.8	729.2	728.1
10°	722.3	722.3	720.0	723.5	723.5
12.5°	716.5	715.4	714.2	718.8	717.7
15°	707.3	707.3	706.1	711.9	710.7
17.5°	695.7	696.9	698.0	702.6	703.8
20°	683.0	685.3	686.5	693.4	693.4
22.5°	671.4	672.6	674.9	681.8	681.8
25°	656.4	658.7	663.4	669.1	670.3
27.5°	641.4	642.6	648.3	656.4	657.6
30°	621.8	625.2	632.2	641.4	642.6
32.5°	604.4	607.9	616.0	625.2	627.5
35°	582.5	587.1	596.3	607.9	610.2
37.5°	562.8	566.3	577.8	590.5	594.0
40°	538.5	545.5	557.0	572.1	577.8
42.5°	514.3	521.2	535.1	554.7	561.7
45°	488.8	496.9	514.3	536.2	545.5
47.5°	463.4	472.7	492.3	517.7	528.1
50°	434.5	446.1	470.4	499.3	510.8
52.5°	406.8	420.7	447.2	479.6	494.6
55°	377.9	391.8	426.4	460.0	476.1
57.5°	345.5	364.0	402.2	440.3	457.6
60°	315.5	332.8	379.1	420.7	438.0
62.5°	283.1	306.3	355.9	399.9	417.2
65°	249.6	275.0	331.7	375.6	392.9
67.5°	219.6	247.3	307.4	351.3	368.7
70°	183.8	218.4	280.8	324.7	342.1
72.5°	150.2	188.4	253.1	295.9	312.0
75°	117.9	160.6	224.2	262.3	270.4
77.5°	87.8	132.9	194.2	210.3	204.6
80°	62.4	106.3	151.4	143.3	146.8
82.5°	40.4	80.9	93.6	106.3	109.8
85°	23.1	47.4	57.8	62.4	64.7
87.5°	10.4	17.3	23.1	23.1	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)