

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: P263793

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2305.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

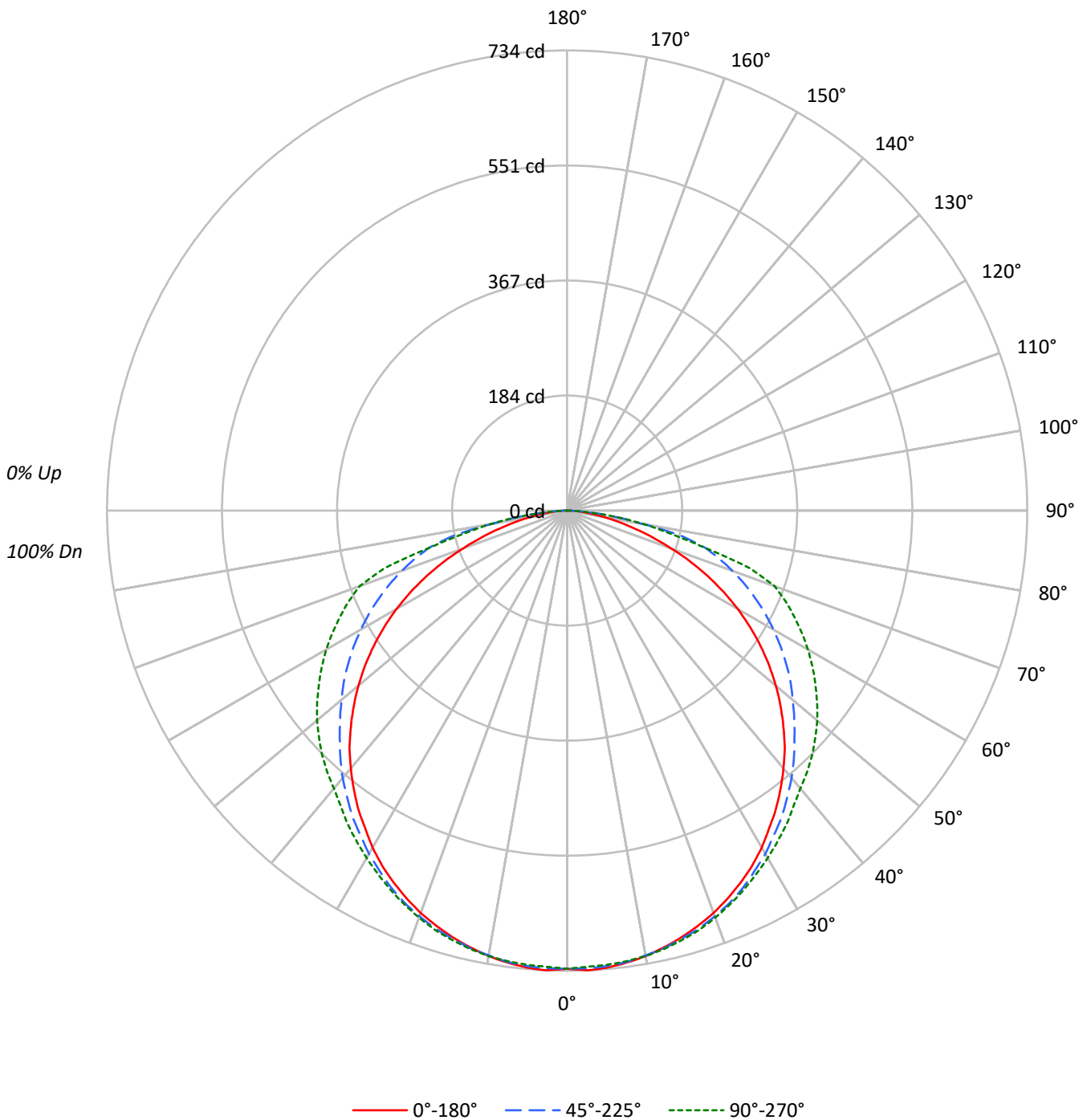
Input Watts (W): 24.924
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	983	983	983
5°	988	985	982
10°	986	984	986
15°	981	985	988
20°	978	986	989
25°	972	985	991
30°	964	982	994
35°	954	980	1003
40°	943	978	1016
45°	928	976	1051
50°	910	983	1090
55°	884	1001	1134
60°	846	1023	1194
65°	788	1055	1272
70°	696	1103	1384
75°	584	1180	1162
80°	466	932	967
85°	367	630	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.0
10°-20°	199.5	8.7
20°-30°	304.7	13.2
30°-40°	372.5	16.2
40°-50°	398.7	17.3
50°-60°	382.4	16.6
60°-70°	322.9	14.0
70°-80°	206.4	9.0
80°-90°	48.8	2.1
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°	573.4	24.9
0°-40°	945.9	41.0
0°-60°	1727.0	74.9
0°-90°	2305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	732	727	730	728	727	70
15°	705	702	707	709	709	199
25°	655	654	664	666	667	302
35°	581	586	597	605	610	363
45°	488	496	513	537	553	376
55°	377	389	427	465	483	336
65°	247	271	331	378	399	244
75°	112	160	227	232	224	121
85°	24	40	41	40	37	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	730.7	730.7	730.7	730.7	730.7
2.5°	734.1	729.6	730.7	730.7	728.4
5°	731.8	727.3	729.6	728.4	727.3
7.5°	727.3	723.9	726.2	726.2	725.0
10°	721.6	718.2	720.5	721.6	721.6
12.5°	713.7	711.4	714.8	714.8	716.0
15°	704.6	702.3	706.9	709.1	709.1
17.5°	694.4	693.3	698.9	700.1	701.2
20°	683.0	681.9	688.7	688.7	691.0
22.5°	669.4	668.3	677.4	677.4	679.6
25°	654.7	653.5	663.8	666.0	667.2
27.5°	638.8	637.7	647.9	651.3	653.5
30°	620.6	620.6	632.0	636.5	639.9
32.5°	600.2	603.6	613.8	620.6	625.2
35°	580.9	585.5	596.8	604.8	610.4
37.5°	559.4	563.9	576.4	586.6	593.4
40°	536.7	542.4	557.1	568.5	578.7
42.5°	514.0	519.7	535.5	552.6	566.2
45°	487.9	495.8	512.9	536.7	552.6
47.5°	461.8	469.7	491.3	520.8	536.7
50°	434.6	443.6	469.7	503.8	520.8
52.5°	406.2	416.4	449.3	485.6	502.6
55°	376.7	389.2	426.6	465.2	483.4
57.5°	346.1	359.7	403.9	444.8	464.1
60°	314.3	331.3	380.1	423.2	443.6
62.5°	281.4	301.8	356.3	400.5	422.1
65°	247.4	271.2	331.3	377.8	399.4
67.5°	212.2	243.9	306.4	355.1	376.7
70°	177.0	214.4	280.3	330.2	351.7
72.5°	144.1	187.2	254.2	300.7	305.2
75°	112.3	160.0	226.9	231.5	223.5
77.5°	84.0	132.8	187.2	166.8	165.7
80°	60.1	106.7	120.3	123.7	124.8
82.5°	39.7	80.6	78.3	80.6	79.4
85°	23.8	39.7	40.8	39.7	37.4
87.5°	11.3	14.8	11.3	10.2	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)