

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: P263883

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263883  
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-LD5-35SE-RDP-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2330.0 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

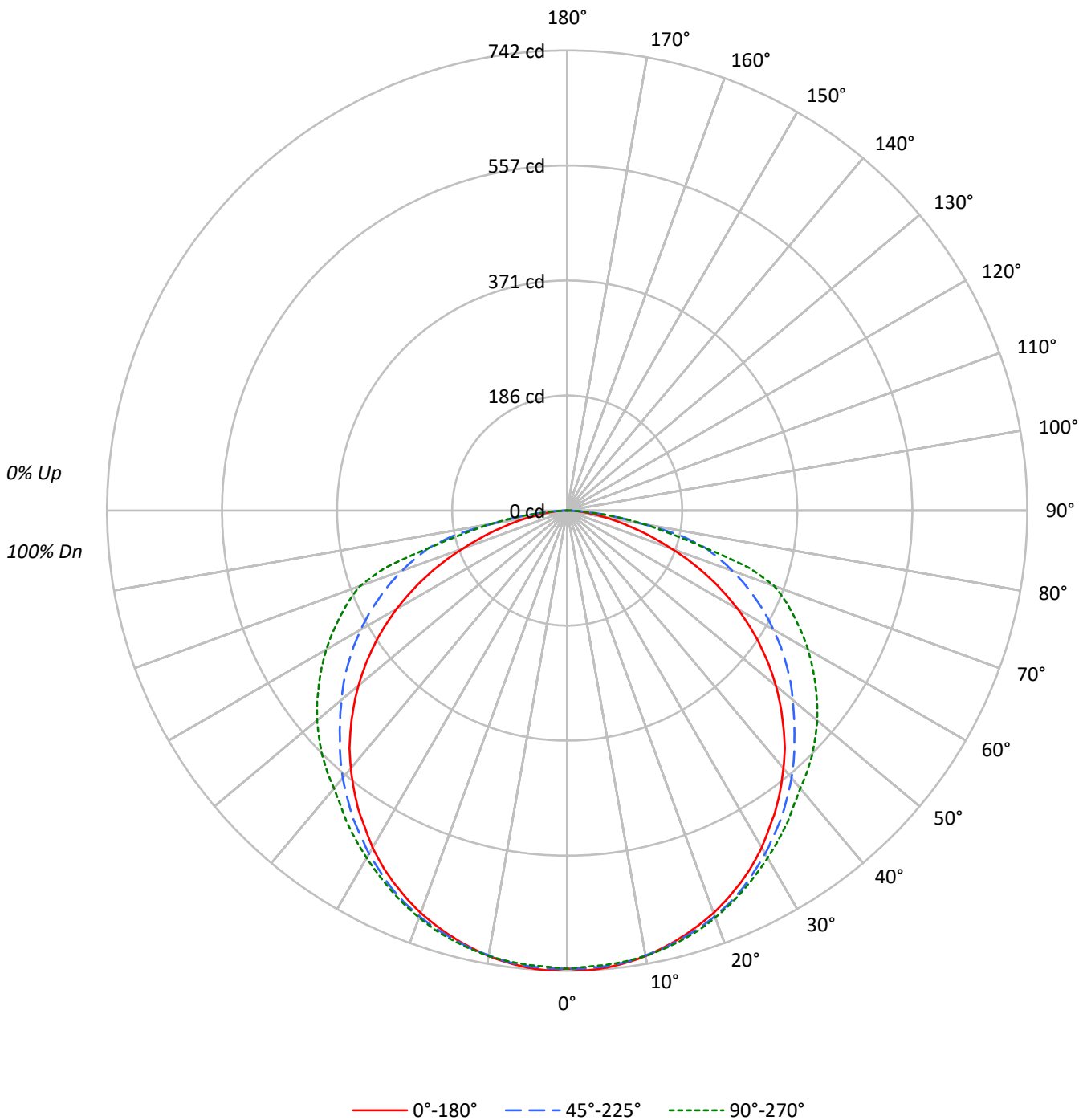
Input Watts (W): 26.877  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	62	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°	994	994	994
5°	999	996	993
10°	997	995	997
15°	992	995	998
20°	989	997	1000
25°	982	996	1001
30°	975	992	1005
35°	964	991	1014
40°	953	989	1027
45°	938	986	1063
50°	920	994	1102
55°	893	1012	1146
60°	855	1034	1207
65°	796	1066	1285
70°	704	1114	1399
75°	590	1193	1174
80°	471	942	978
85°	372	638	584



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	3.0
10°-20°	201.6	8.7
20°-30°	308.0	13.2
30°-40°	376.5	16.2
40°-50°	403.0	17.3
50°-60°	386.5	16.6
60°-70°	326.4	14.0
70°-80°	208.6	9.0
80°-90°	49.3	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°	579.6	24.9
0°-40°	956.1	41.0
0°-60°	1745.7	74.9
0°-90°	2330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2330.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	740	735	738	736	735	70
15°	712	710	714	717	717	201
25°	662	661	671	673	674	305
35°	587	592	603	611	617	367
45°	493	501	518	542	559	380
55°	381	393	431	470	489	340
65°	250	274	335	382	404	247
75°	114	162	229	234	226	122
85°	24	40	41	40	38	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	738.6	738.6	738.6	738.6	738.6
2.5°	742.1	737.5	738.6	738.6	736.3
5°	739.8	735.2	737.5	736.3	735.2
7.5°	735.2	731.7	734.0	734.0	732.9
10°	729.5	726.0	728.3	729.5	729.5
12.5°	721.4	719.1	722.6	722.6	723.7
15°	712.2	710.0	714.5	716.8	716.8
17.5°	701.9	700.8	706.5	707.7	708.8
20°	690.5	689.3	696.2	696.2	698.5
22.5°	676.7	675.5	684.7	684.7	687.0
25°	661.8	660.6	671.0	673.3	674.4
27.5°	645.7	644.6	654.9	658.3	660.6
30°	627.4	627.4	638.8	643.4	646.9
32.5°	606.7	610.2	620.5	627.4	632.0
35°	587.2	591.8	603.3	611.3	617.1
37.5°	565.4	570.0	582.6	593.0	599.8
40°	542.5	548.2	563.1	574.6	584.9
42.5°	519.6	525.3	541.4	558.6	572.3
45°	493.2	501.2	518.4	542.5	558.6
47.5°	466.8	474.8	496.6	526.4	542.5
50°	439.3	448.5	474.8	509.2	526.4
52.5°	410.6	420.9	454.2	490.9	508.1
55°	380.8	393.4	431.2	470.2	488.6
57.5°	349.8	363.6	408.3	449.6	469.1
60°	317.7	334.9	384.2	427.8	448.5
62.5°	284.4	305.1	360.1	404.9	426.7
65°	250.0	274.1	334.9	381.9	403.7
67.5°	214.5	246.6	309.7	359.0	380.8
70°	178.9	216.8	283.3	333.8	355.6
72.5°	145.7	189.2	256.9	303.9	308.5
75°	113.5	161.7	229.4	234.0	225.9
77.5°	84.9	134.2	189.2	168.6	167.5
80°	60.8	107.8	121.6	125.0	126.2
82.5°	40.1	81.4	79.1	81.4	80.3
85°	24.1	40.1	41.3	40.1	37.8
87.5°	11.5	14.9	11.5	10.3	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)