

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: P263653

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263653  
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-L82765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2389.0 lumens  
Efficiency: N/A  
Efficacy: 98.4 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

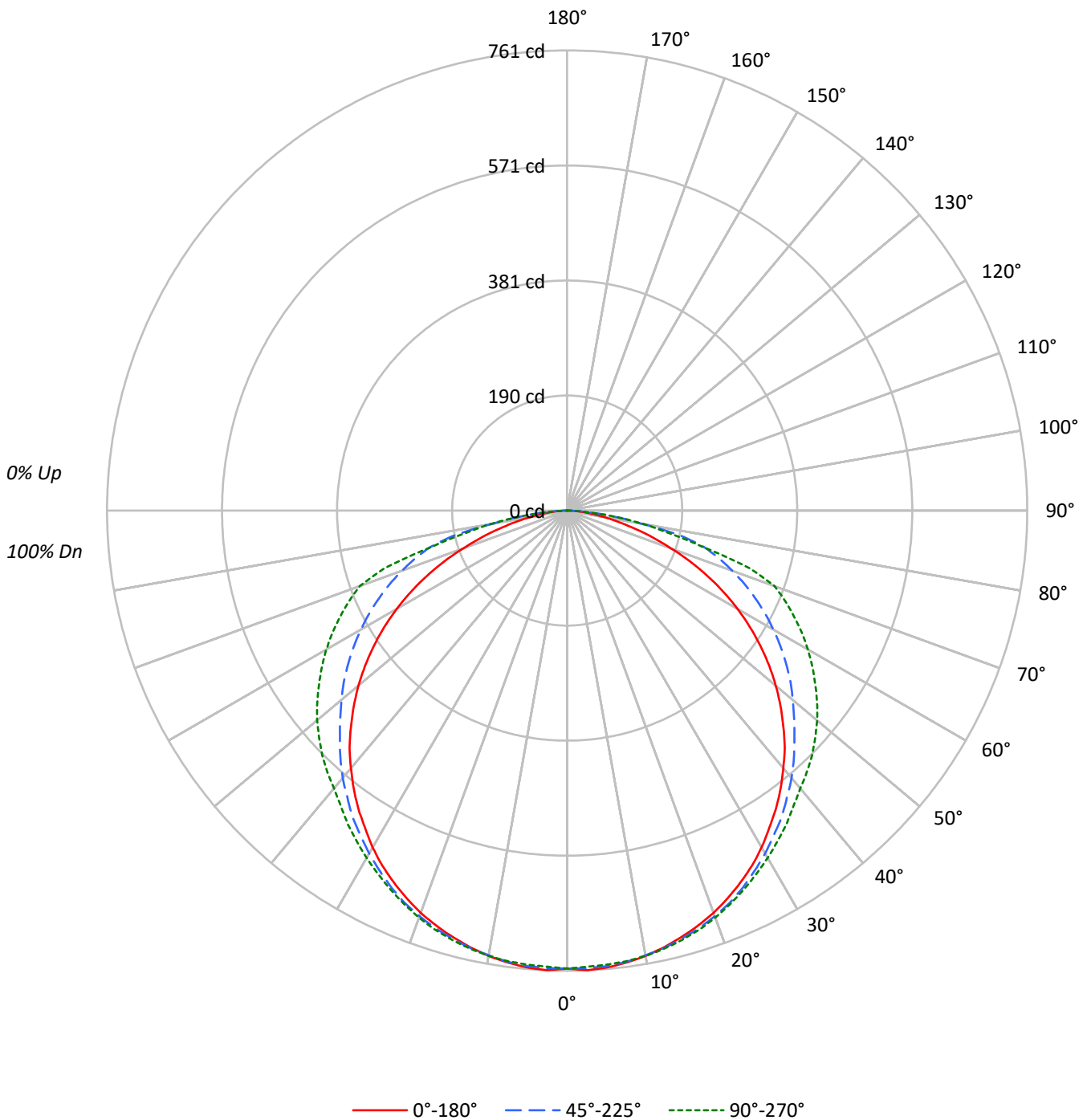
Input Watts (W): 24.273  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1019	1019	1019
5°	1024	1021	1018
10°	1022	1020	1022
15°	1017	1020	1024
20°	1014	1022	1025
25°	1007	1021	1027
30°	999	1018	1031
35°	989	1016	1039
40°	977	1014	1053
45°	962	1011	1090
50°	943	1019	1130
55°	916	1037	1175
60°	876	1060	1237
65°	816	1093	1318
70°	722	1143	1434
75°	605	1223	1205
80°	483	966	1003
85°	381	653	599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	3.0
10°-20°	206.7	8.7
20°-30°	315.8	13.2
30°-40°	386.0	16.2
40°-50°	413.2	17.3
50°-60°	396.4	16.6
60°-70°	334.7	14.0
70°-80°	213.9	9.0
80°-90°	50.6	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°	594.3	24.9
0°-40°	980.4	41.0
0°-60°	1789.9	74.9
0°-90°	2389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2389.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	758	754	756	755	754	72
15°	730	728	733	735	735	206
25°	678	677	688	690	692	313
35°	602	607	619	627	633	376
45°	506	514	532	556	573	390
55°	390	403	442	482	501	348
65°	256	281	343	392	414	253
75°	116	166	235	240	232	125
85°	25	41	42	41	39	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	757.3	757.3	757.3	757.3	757.3
2.5°	760.9	756.2	757.3	757.3	755.0
5°	758.5	753.8	756.2	755.0	753.8
7.5°	753.8	750.3	752.6	752.6	751.5
10°	747.9	744.4	746.7	747.9	747.9
12.5°	739.7	737.3	740.9	740.9	742.0
15°	730.3	727.9	732.6	735.0	735.0
17.5°	719.7	718.5	724.4	725.6	726.8
20°	707.9	706.8	713.8	713.8	716.2
22.5°	693.8	692.7	702.1	702.1	704.4
25°	678.5	677.4	687.9	690.3	691.5
27.5°	662.1	660.9	671.5	675.0	677.4
30°	643.3	643.3	655.0	659.7	663.3
32.5°	622.1	625.6	636.2	643.3	648.0
35°	602.1	606.8	618.6	626.8	632.7
37.5°	579.8	584.5	597.4	608.0	615.0
40°	556.2	562.1	577.4	589.2	599.8
42.5°	532.7	538.6	555.1	572.7	586.8
45°	505.7	513.9	531.5	556.2	572.7
47.5°	478.6	486.9	509.2	539.8	556.2
50°	450.4	459.8	486.9	522.1	539.8
52.5°	421.0	431.6	465.7	503.3	521.0
55°	390.4	403.4	442.2	482.2	501.0
57.5°	358.7	372.8	418.6	461.0	481.0
60°	325.7	343.4	394.0	438.6	459.8
62.5°	291.6	312.8	369.3	415.1	437.5
65°	256.4	281.1	343.4	391.6	413.9
67.5°	219.9	252.8	317.5	368.1	390.4
70°	183.5	222.3	290.5	342.2	364.6
72.5°	149.3	194.0	263.4	311.6	316.3
75°	116.4	165.8	235.2	239.9	231.7
77.5°	87.0	137.6	194.0	172.9	171.7
80°	62.3	110.5	124.7	128.2	129.4
82.5°	41.2	83.5	81.1	83.5	82.3
85°	24.7	41.2	42.3	41.2	38.8
87.5°	11.8	15.3	11.8	10.6	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)