

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: P263789

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263789  
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-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2160.0 lumens  
Efficiency: N/A  
Efficacy: 88.3 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

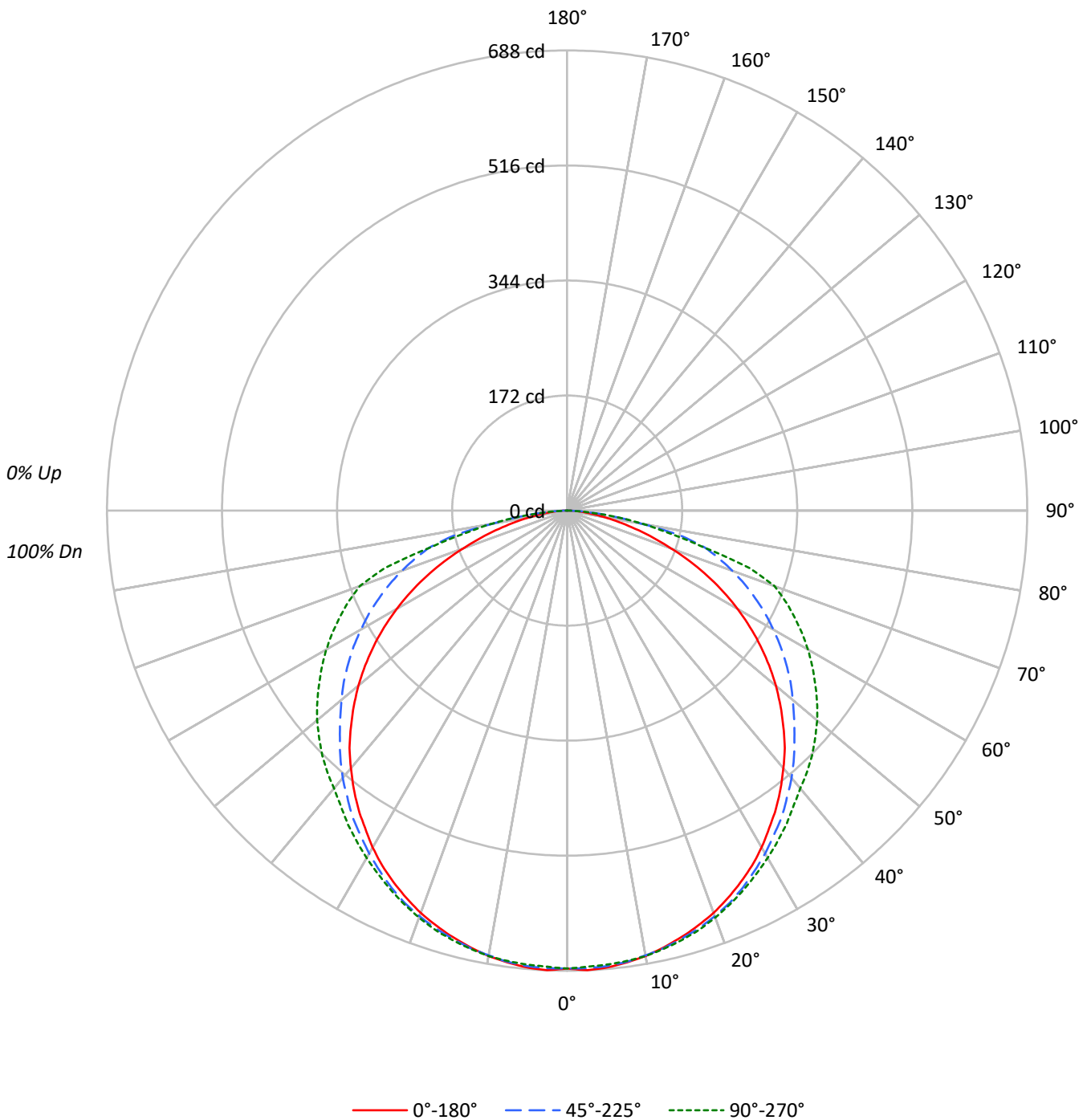
Input Watts (W): 24.459  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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°	921	921	921
5°	926	923	920
10°	924	922	924
15°	920	923	926
20°	917	924	927
25°	911	923	928
30°	904	920	932
35°	894	919	940
40°	883	917	953
45°	870	914	985
50°	852	921	1021
55°	828	938	1062
60°	792	959	1119
65°	738	989	1192
70°	653	1033	1297
75°	547	1106	1089
80°	437	873	907
85°	344	591	542



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	3.0
10°-20°	186.9	8.7
20°-30°	285.5	13.2
30°-40°	349.0	16.2
40°-50°	373.6	17.3
50°-60°	358.4	16.6
60°-70°	302.6	14.0
70°-80°	193.4	9.0
80°-90°	45.7	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°	537.3	24.9
0°-40°	886.4	41.0
0°-60°	1618.3	74.9
0°-90°	2160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2160.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	686	682	684	683	682	65
15°	660	658	662	664	664	186
25°	614	612	622	624	625	283
35°	544	549	559	567	572	340
45°	457	465	481	503	518	353
55°	353	365	400	436	453	315
65°	232	254	310	354	374	229
75°	105	150	213	217	210	113
85°	22	37	38	37	35	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	684.7	684.7	684.7	684.7	684.7
2.5°	687.9	683.7	684.7	684.7	682.6
5°	685.8	681.5	683.7	682.6	681.5
7.5°	681.5	678.4	680.5	680.5	679.4
10°	676.2	673.0	675.2	676.2	676.2
12.5°	668.8	666.7	669.9	669.9	670.9
15°	660.3	658.2	662.4	664.5	664.5
17.5°	650.7	649.7	655.0	656.0	657.1
20°	640.1	639.0	645.4	645.4	647.5
22.5°	627.3	626.3	634.8	634.8	636.9
25°	613.5	612.4	622.0	624.1	625.2
27.5°	598.6	597.6	607.1	610.3	612.4
30°	581.6	581.6	592.2	596.5	599.7
32.5°	562.5	565.7	575.2	581.6	585.9
35°	544.4	548.6	559.3	566.7	572.0
37.5°	524.2	528.4	540.1	549.7	556.1
40°	502.9	508.2	522.1	532.7	542.3
42.5°	481.7	487.0	501.9	517.8	530.6
45°	457.2	464.6	480.6	502.9	517.8
47.5°	432.7	440.2	460.4	488.0	502.9
50°	407.2	415.7	440.2	472.1	488.0
52.5°	380.6	390.2	421.1	455.1	471.0
55°	353.0	364.7	399.8	435.9	452.9
57.5°	324.3	337.1	378.5	416.8	434.9
60°	294.5	310.5	356.2	396.6	415.7
62.5°	263.7	282.8	333.9	375.3	395.5
65°	231.8	254.1	310.5	354.1	374.3
67.5°	198.8	228.6	287.1	332.8	353.0
70°	165.9	201.0	262.6	309.4	329.6
72.5°	135.0	175.4	238.2	281.8	286.0
75°	105.3	149.9	212.7	216.9	209.5
77.5°	78.7	124.4	175.4	156.3	155.2
80°	56.4	99.9	112.7	115.9	117.0
82.5°	37.2	75.5	73.4	75.5	74.4
85°	22.3	37.2	38.3	37.2	35.1
87.5°	10.6	13.8	10.6	9.6	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)