

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: P263790

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263790  
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-4500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2216.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

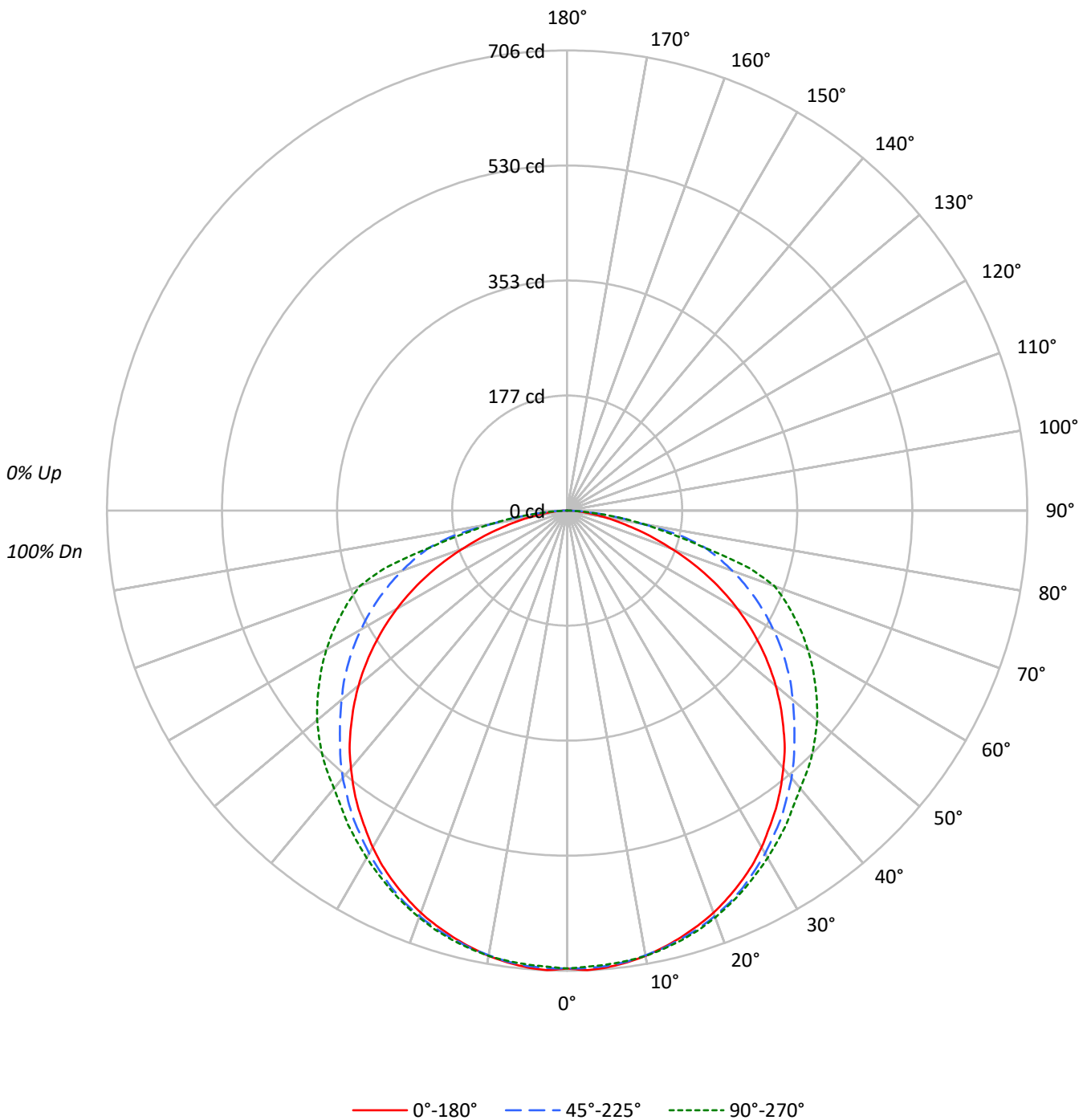
Input Watts (W): 24.645  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	945	945	945
5°	950	947	944
10°	948	946	948
15°	944	947	950
20°	940	948	951
25°	934	947	952
30°	927	944	956
35°	917	942	964
40°	906	941	977
45°	893	938	1011
50°	875	945	1048
55°	850	962	1090
60°	813	983	1148
65°	757	1014	1223
70°	670	1060	1330
75°	561	1134	1117
80°	448	896	930
85°	354	607	556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	3.0
10°-20°	191.8	8.7
20°-30°	292.9	13.2
30°-40°	358.1	16.2
40°-50°	383.3	17.3
50°-60°	367.6	16.6
60°-70°	310.4	14.0
70°-80°	198.4	9.0
80°-90°	46.9	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°	551.3	24.9
0°-40°	909.3	41.0
0°-60°	1660.3	74.9
0°-90°	2216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2216.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	699	701	700	699	67
15°	677	675	680	682	682	191
25°	629	628	638	640	641	290
35°	558	563	574	581	587	349
45°	469	477	493	516	531	362
55°	362	374	410	447	465	323
65°	238	261	318	363	384	235
75°	108	154	218	222	215	116
85°	23	38	39	38	36	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	702.5	702.5	702.5	702.5	702.5
2.5°	705.8	701.4	702.5	702.5	700.3
5°	703.6	699.2	701.4	700.3	699.2
7.5°	699.2	695.9	698.1	698.1	697.0
10°	693.8	690.5	692.7	693.8	693.8
12.5°	686.1	683.9	687.2	687.2	688.3
15°	677.4	675.2	679.6	681.8	681.8
17.5°	667.6	666.5	671.9	673.0	674.1
20°	656.7	655.6	662.1	662.1	664.3
22.5°	643.6	642.5	651.2	651.2	653.4
25°	629.4	628.3	638.1	640.3	641.4
27.5°	614.1	613.0	622.9	626.1	628.3
30°	596.7	596.7	607.6	612.0	615.2
32.5°	577.0	580.3	590.1	596.7	601.0
35°	558.5	562.9	573.8	581.4	586.9
37.5°	537.8	542.1	554.1	564.0	570.5
40°	516.0	521.4	535.6	546.5	556.3
42.5°	494.1	499.6	514.9	531.2	544.3
45°	469.1	476.7	493.1	516.0	531.2
47.5°	444.0	451.6	472.3	500.7	516.0
50°	417.8	426.5	451.6	484.3	500.7
52.5°	390.5	400.3	432.0	466.9	483.2
55°	362.2	374.2	410.1	447.2	464.7
57.5°	332.7	345.8	388.3	427.6	446.1
60°	302.2	318.5	365.4	406.9	426.5
62.5°	270.5	290.2	342.5	385.1	405.8
65°	237.8	260.7	318.5	363.2	384.0
67.5°	204.0	234.5	294.5	341.4	362.2
70°	170.2	206.2	269.4	317.4	338.2
72.5°	138.5	180.0	244.3	289.1	293.4
75°	108.0	153.8	218.2	222.5	214.9
77.5°	80.7	127.6	180.0	160.4	159.3
80°	57.8	102.5	115.6	118.9	120.0
82.5°	38.2	77.4	75.3	77.4	76.4
85°	22.9	38.2	39.3	38.2	36.0
87.5°	10.9	14.2	10.9	9.8	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)