

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: P263822

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263822  
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-LD5-55-RDP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3023.0 lumens  
Efficiency: N/A  
Efficacy: 75.6 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

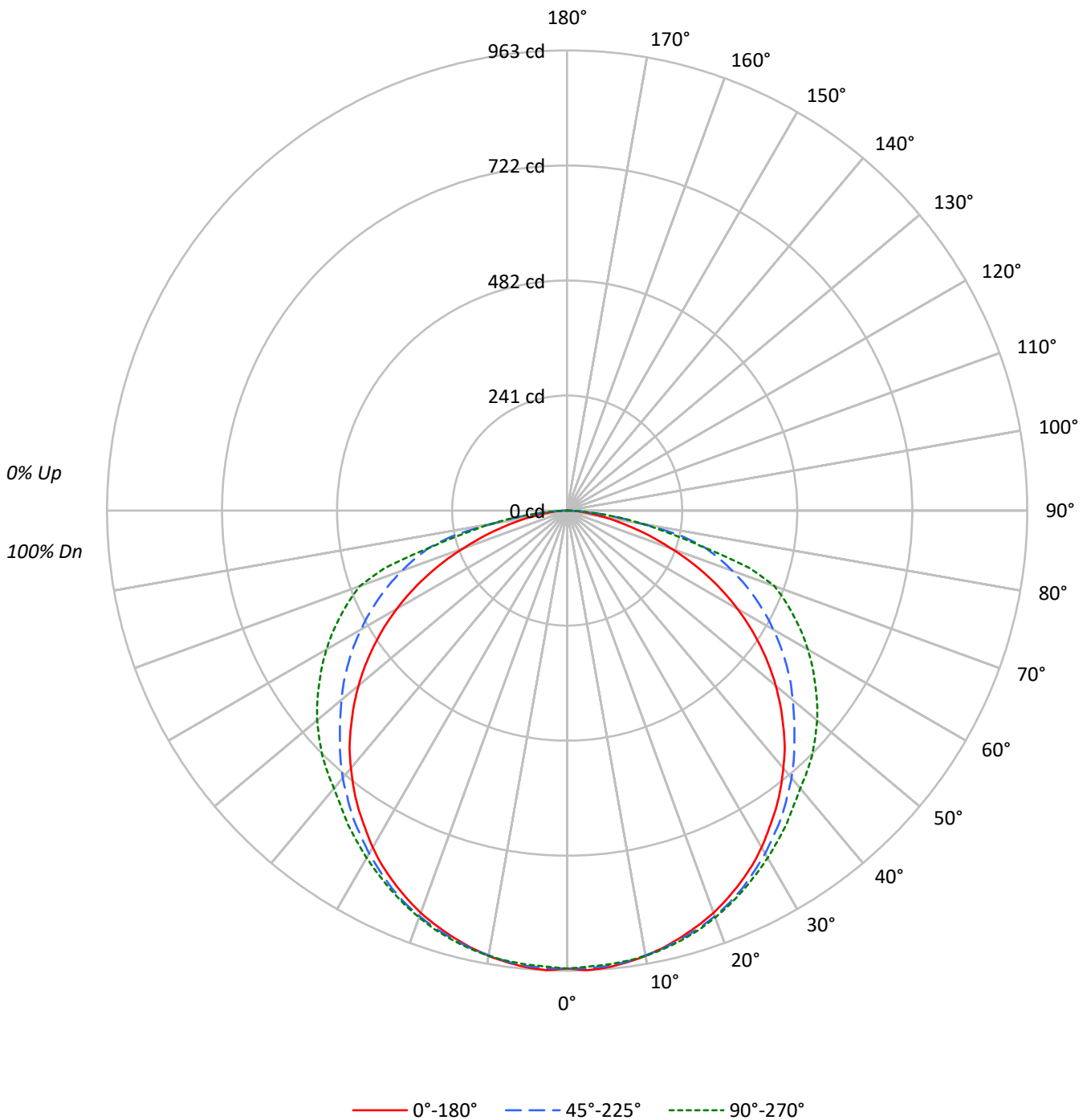
Input Watts (W): 39.99  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1289	1289	1289
5°	1296	1292	1288
10°	1293	1291	1293
15°	1287	1291	1295
20°	1283	1293	1298
25°	1275	1292	1299
30°	1265	1288	1304
35°	1251	1286	1315
40°	1236	1283	1333
45°	1218	1280	1379
50°	1193	1290	1430
55°	1159	1312	1487
60°	1109	1341	1566
65°	1033	1383	1668
70°	913	1446	1815
75°	766	1547	1524
80°	611	1222	1268
85°	482	827	758



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.9	3.0
10°-20°	261.6	8.7
20°-30°	399.6	13.2
30°-40°	488.5	16.2
40°-50°	522.9	17.3
50°-60°	501.5	16.6
60°-70°	423.5	14.0
70°-80°	270.6	9.0
80°-90°	64.0	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°	752.0	24.9
0°-40°	1240.5	41.0
0°-60°	2264.9	74.9
0°-90°	3023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	960	954	957	955	954	91
15°	924	921	927	930	930	261
25°	859	857	870	874	875	396
35°	762	768	783	793	801	476
45°	640	650	673	704	725	494
55°	494	510	560	610	634	441
65°	324	356	434	496	524	320
75°	147	210	298	304	293	159
85°	31	52	54	52	49	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	958.3	958.3	958.3	958.3	958.3
2.5°	962.8	956.8	958.3	958.3	955.3
5°	959.8	953.9	956.8	955.3	953.9
7.5°	953.9	949.4	952.4	952.4	950.9
10°	946.4	941.9	944.9	946.4	946.4
12.5°	936.0	933.0	937.5	937.5	939.0
15°	924.1	921.1	927.1	930.0	930.0
17.5°	910.7	909.2	916.7	918.1	919.6
20°	895.8	894.3	903.3	903.3	906.2
22.5°	878.0	876.5	888.4	888.4	891.4
25°	858.6	857.1	870.5	873.5	875.0
27.5°	837.8	836.3	849.7	854.2	857.1
30°	814.0	814.0	828.9	834.8	839.3
32.5°	787.2	791.7	805.0	814.0	819.9
35°	761.9	767.8	782.7	793.1	800.6
37.5°	733.6	739.6	755.9	769.3	778.3
40°	703.9	711.3	730.6	745.5	758.9
42.5°	674.1	681.5	702.4	724.7	742.5
45°	639.9	650.3	672.6	703.9	724.7
47.5°	605.6	616.1	644.3	683.0	703.9
50°	569.9	581.8	616.1	660.7	683.0
52.5°	532.7	546.1	589.3	636.9	659.2
55°	494.0	510.4	559.5	610.1	633.9
57.5°	453.9	471.7	529.8	583.3	608.6
60°	412.2	434.5	498.5	555.0	581.8
62.5°	369.0	395.8	467.3	525.3	553.6
65°	324.4	355.6	434.5	495.5	523.8
67.5°	278.3	319.9	401.8	465.8	494.0
70°	232.1	281.2	367.6	433.0	461.3
72.5°	189.0	245.5	333.3	394.3	400.3
75°	147.3	209.8	297.6	303.6	293.1
77.5°	110.1	174.1	245.5	218.7	217.3
80°	78.9	139.9	157.7	162.2	163.7
82.5°	52.1	105.7	102.7	105.7	104.2
85°	31.2	52.1	53.6	52.1	49.1
87.5°	14.9	19.3	14.9	13.4	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)