

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: P263591

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263591  
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-LD5-50-RDP-UNV-L93050-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3262.5 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

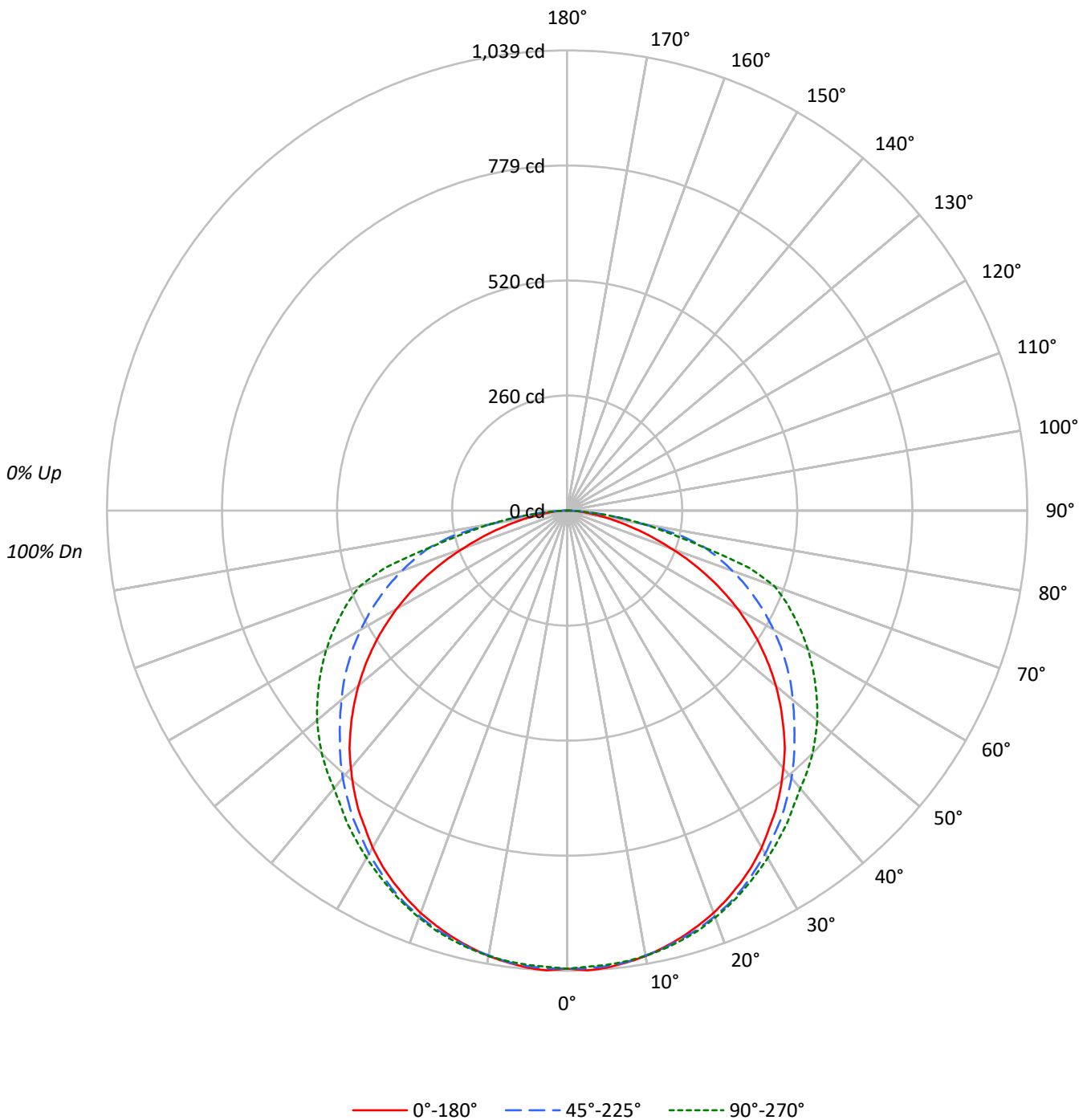
Input Watts (W): 37.211904  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1392	1392	1392
5°	1399	1395	1390
10°	1395	1393	1395
15°	1389	1394	1398
20°	1384	1396	1400
25°	1376	1395	1402
30°	1365	1390	1407
35°	1351	1387	1419
40°	1334	1385	1439
45°	1314	1381	1488
50°	1288	1392	1543
55°	1251	1416	1605
60°	1197	1448	1690
65°	1115	1493	1800
70°	985	1561	1959
75°	827	1670	1645
80°	659	1319	1369
85°	520	892	818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	3.0
10°-20°	282.3	8.7
20°-30°	431.2	13.2
30°-40°	527.2	16.2
40°-50°	564.3	17.3
50°-60°	541.3	16.6
60°-70°	457.0	14.0
70°-80°	292.1	9.0
80°-90°	69.1	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°	811.6	24.9
0°-40°	1338.8	41.0
0°-60°	2444.3	74.9
0°-90°	3262.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3262.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1036	1029	1033	1031	1029	98
15°	997	994	1000	1004	1004	282
25°	927	925	940	943	944	427
35°	822	829	845	856	864	514
45°	691	702	726	760	782	533
55°	533	551	604	658	684	476
65°	350	384	469	535	565	345
75°	159	226	321	328	316	171
85°	34	56	58	56	53	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1034.2	1034.2	1034.2	1034.2	1034.2
2.5°	1039.1	1032.6	1034.2	1034.2	1031.0
5°	1035.9	1029.4	1032.6	1031.0	1029.4
7.5°	1029.4	1024.6	1027.8	1027.8	1026.2
10°	1021.4	1016.6	1019.8	1021.4	1021.4
12.5°	1010.2	1006.9	1011.8	1011.8	1013.4
15°	997.3	994.1	1000.5	1003.7	1003.7
17.5°	982.9	981.3	989.3	990.9	992.5
20°	966.8	965.2	974.8	974.8	978.0
22.5°	947.5	945.9	958.8	958.8	962.0
25°	926.6	925.0	939.5	942.7	944.3
27.5°	904.2	902.6	917.0	921.8	925.0
30°	878.5	878.5	894.5	901.0	905.8
32.5°	849.6	854.4	868.8	878.5	884.9
35°	822.3	828.7	844.7	856.0	864.0
37.5°	791.7	798.2	815.8	830.3	839.9
40°	759.6	767.7	788.5	804.6	819.0
42.5°	727.5	735.5	758.0	782.1	801.4
45°	690.6	701.8	725.9	759.6	782.1
47.5°	653.6	664.9	695.4	737.1	759.6
50°	615.1	627.9	664.9	713.1	737.1
52.5°	574.9	589.4	636.0	687.4	711.4
55°	533.2	550.8	603.8	658.5	684.1
57.5°	489.8	509.1	571.7	629.5	656.8
60°	444.9	468.9	538.0	599.0	627.9
62.5°	398.3	427.2	504.3	566.9	597.4
65°	350.1	383.8	468.9	534.8	565.3
67.5°	300.3	345.3	433.6	502.7	533.2
70°	250.5	303.5	396.7	467.3	497.9
72.5°	204.0	265.0	359.7	425.6	432.0
75°	159.0	226.4	321.2	327.6	316.4
77.5°	118.8	187.9	265.0	236.1	234.5
80°	85.1	151.0	170.2	175.1	176.7
82.5°	56.2	114.0	110.8	114.0	112.4
85°	33.7	56.2	57.8	56.2	53.0
87.5°	16.1	20.9	16.1	14.5	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)