

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: P263911

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263911  
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-LD5-50SE-RDP-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3299.0 lumens  
Efficiency: N/A  
Efficacy: 79.4 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

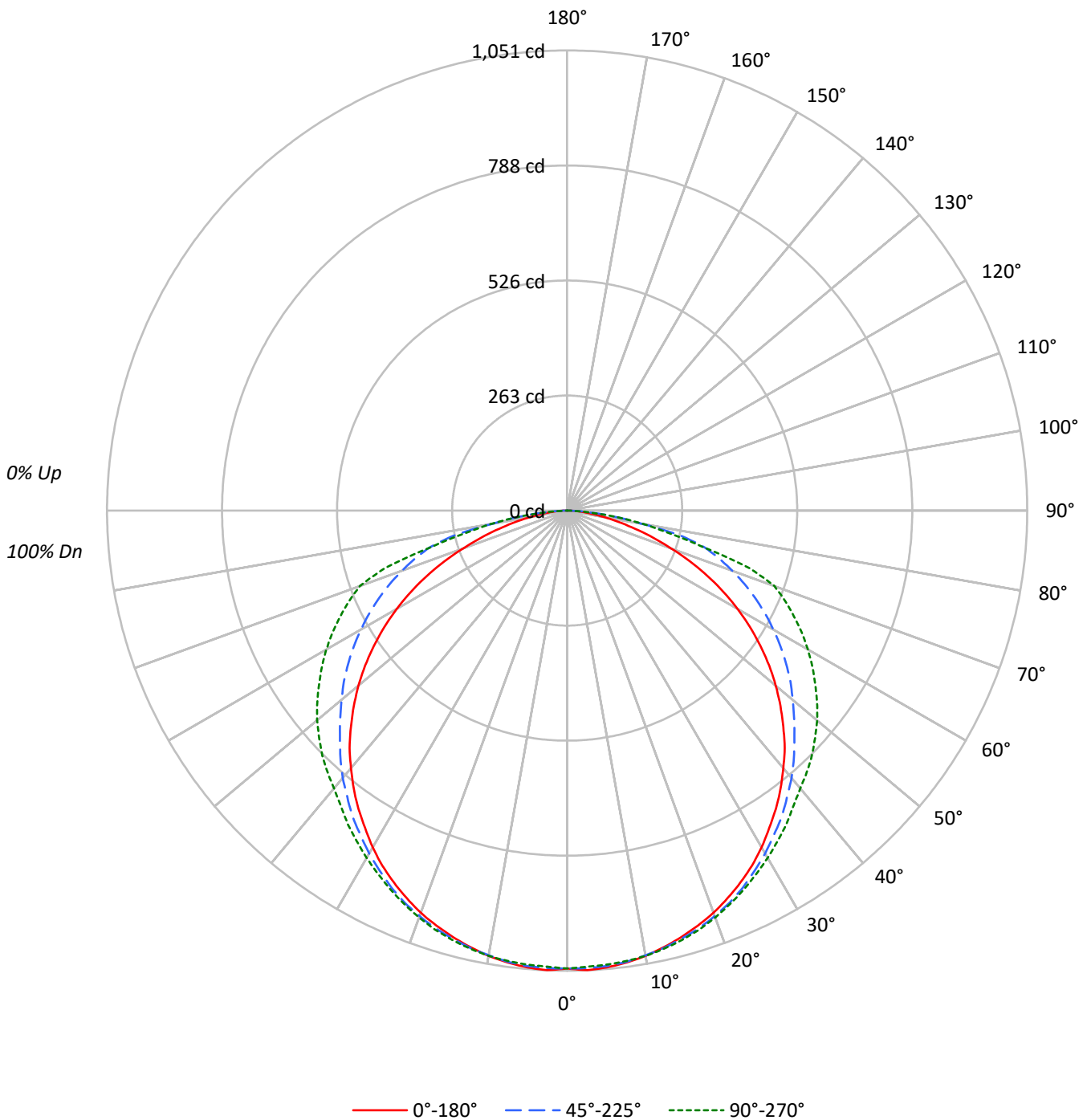
Input Watts (W): 41.571  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1407	1407	1407
5°	1415	1410	1406
10°	1411	1409	1411
15°	1405	1409	1414
20°	1400	1411	1416
25°	1391	1410	1418
30°	1380	1405	1423
35°	1366	1403	1435
40°	1349	1400	1455
45°	1329	1397	1505
50°	1302	1407	1560
55°	1265	1432	1623
60°	1210	1464	1709
65°	1127	1510	1820
70°	996	1578	1980
75°	836	1688	1663
80°	667	1333	1384
85°	526	903	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.2	3.0
10°-20°	285.5	8.7
20°-30°	436.0	13.2
30°-40°	533.1	16.2
40°-50°	570.6	17.3
50°-60°	547.3	16.6
60°-70°	462.1	14.0
70°-80°	295.3	9.0
80°-90°	69.8	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°	820.7	24.9
0°-40°	1353.8	41.0
0°-60°	2471.7	74.9
0°-90°	3299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3299.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1047	1041	1044	1043	1041	99
15°	1008	1005	1012	1015	1015	285
25°	937	935	950	953	955	432
35°	832	838	854	866	874	520
45°	698	710	734	768	791	539
55°	539	557	611	666	692	481
65°	354	388	474	541	572	349
75°	161	229	325	331	320	173
85°	34	57	58	57	54	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1045.8	1045.8	1045.8	1045.8	1045.8
2.5°	1050.7	1044.2	1045.8	1045.8	1042.6
5°	1047.4	1040.9	1044.2	1042.6	1040.9
7.5°	1040.9	1036.1	1039.3	1039.3	1037.7
10°	1032.8	1027.9	1031.2	1032.8	1032.8
12.5°	1021.5	1018.2	1023.1	1023.1	1024.7
15°	1008.5	1005.2	1011.7	1015.0	1015.0
17.5°	993.8	992.2	1000.3	1002.0	1003.6
20°	977.6	976.0	985.7	985.7	989.0
22.5°	958.1	956.5	969.5	969.5	972.7
25°	937.0	935.4	950.0	953.2	954.9
27.5°	914.3	912.6	927.3	932.1	935.4
30°	888.3	888.3	904.5	911.0	915.9
32.5°	859.1	863.9	878.5	888.3	894.8
35°	831.5	837.9	854.2	865.6	873.7
37.5°	800.6	807.1	825.0	839.6	849.3
40°	768.1	776.2	797.3	813.6	828.2
42.5°	735.6	743.8	766.5	790.9	810.3
45°	698.3	709.7	734.0	768.1	790.9
47.5°	660.9	672.3	703.2	745.4	768.1
50°	622.0	635.0	672.3	721.0	745.4
52.5°	581.4	596.0	643.1	695.0	719.4
55°	539.1	557.0	610.6	665.8	691.8
57.5°	495.3	514.8	578.1	636.6	664.2
60°	449.8	474.2	544.0	605.7	635.0
62.5°	402.7	432.0	509.9	573.2	604.1
65°	354.0	388.1	474.2	540.8	571.6
67.5°	303.7	349.1	438.5	508.3	539.1
70°	253.3	306.9	401.1	472.6	503.4
72.5°	206.2	267.9	363.8	430.3	436.8
75°	160.8	229.0	324.8	331.3	319.9
77.5°	120.2	190.0	267.9	238.7	237.1
80°	86.1	152.6	172.1	177.0	178.6
82.5°	56.8	115.3	112.1	115.3	113.7
85°	34.1	56.8	58.5	56.8	53.6
87.5°	16.2	21.1	16.2	14.6	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)