

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: P263819

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263819  
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-L92765-W2A1-U-5500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3279.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 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

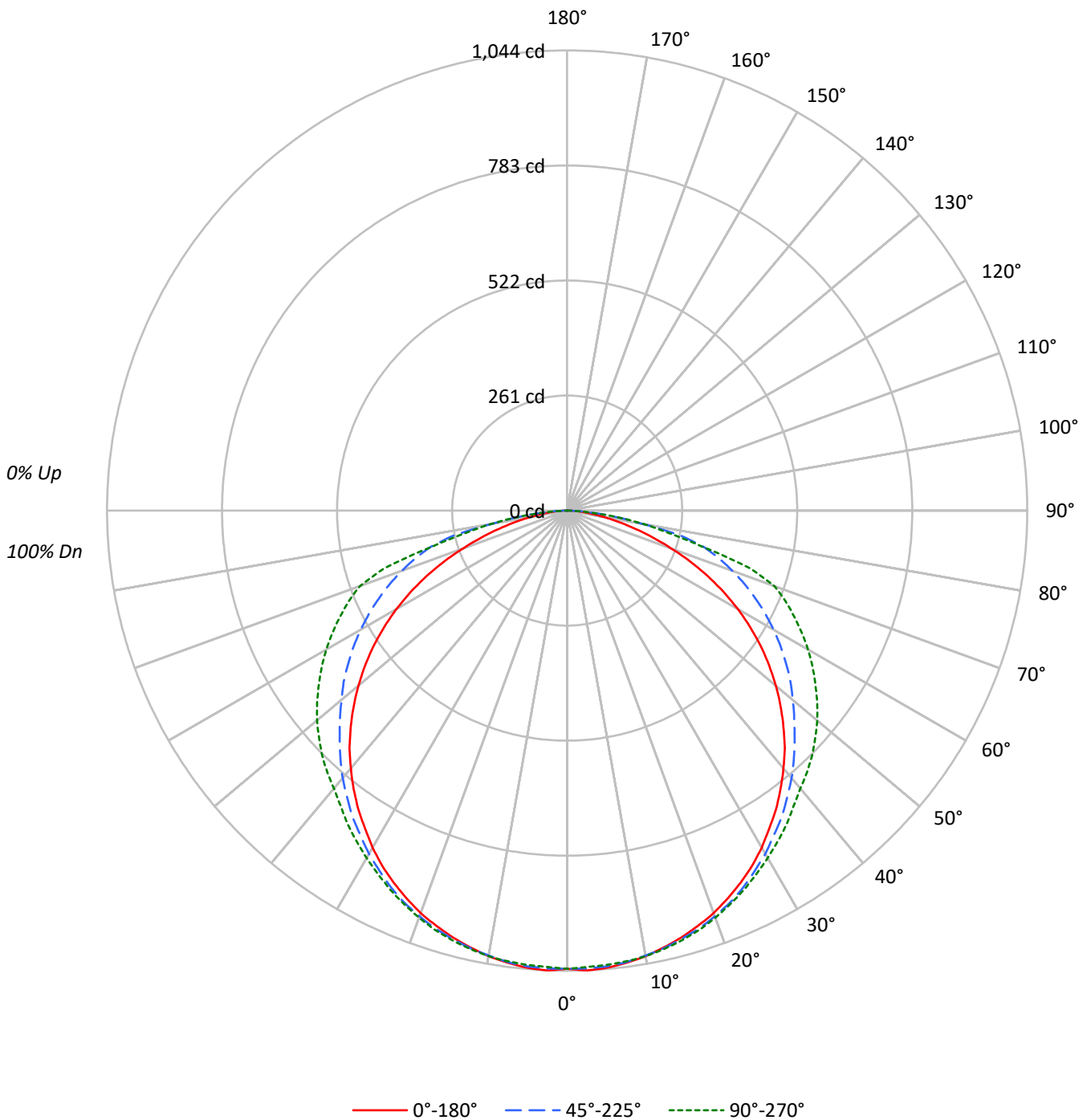
Input Watts (W): 36.735  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P263819

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-5500K

### Luminous Intensity Polar Plot





TEST NUMBER: P263819

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-5500K

**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°	1399	1399	1399
5°	1406	1402	1397
10°	1403	1400	1403
15°	1396	1401	1405
20°	1391	1403	1407
25°	1383	1402	1409
30°	1372	1397	1414
35°	1357	1395	1426
40°	1341	1392	1446
45°	1321	1388	1496
50°	1294	1399	1551
55°	1257	1424	1613
60°	1203	1455	1698
65°	1120	1500	1809
70°	991	1568	1969
75°	831	1678	1653
80°	662	1326	1375
85°	523	897	823



TEST NUMBER: P263819

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-5500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.6	3.0
10°-20°	283.7	8.7
20°-30°	433.4	13.2
30°-40°	529.9	16.2
40°-50°	567.2	17.3
50°-60°	544.0	16.6
60°-70°	459.3	14.0
70°-80°	293.6	9.0
80°-90°	69.4	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°	815.7	24.9
0°-40°	1345.6	41.0
0°-60°	2456.7	74.9
0°-90°	3279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3279.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1041	1035	1038	1036	1035	99
15°	1002	999	1006	1009	1009	283
25°	931	930	944	948	949	429
35°	826	833	849	860	868	517
45°	694	705	730	764	786	535
55°	536	554	607	662	688	478
65°	352	386	471	538	568	347
75°	160	228	323	329	318	172
85°	34	56	58	56	53	41
90°	0	0	0	0	0	



TEST NUMBER: P263819

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-5500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1039.5	1039.5	1039.5	1039.5	1039.5
2.5°	1044.3	1037.9	1039.5	1039.5	1036.2
5°	1041.1	1034.6	1037.9	1036.2	1034.6
7.5°	1034.6	1029.8	1033.0	1033.0	1031.4
10°	1026.6	1021.7	1024.9	1026.6	1026.6
12.5°	1015.3	1012.0	1016.9	1016.9	1018.5
15°	1002.3	999.1	1005.6	1008.8	1008.8
17.5°	987.8	986.2	994.3	995.9	997.5
20°	971.7	970.1	979.7	979.7	983.0
22.5°	952.3	950.7	963.6	963.6	966.8
25°	931.3	929.7	944.2	947.5	949.1
27.5°	908.7	907.1	921.6	926.5	929.7
30°	882.9	882.9	899.0	905.5	910.3
32.5°	853.9	858.7	873.2	882.9	889.4
35°	826.4	832.9	849.0	860.3	868.4
37.5°	795.7	802.2	820.0	834.5	844.2
40°	763.5	771.5	792.5	808.7	823.2
42.5°	731.2	739.3	761.8	786.1	805.4
45°	694.1	705.4	729.6	763.5	786.1
47.5°	656.9	668.2	698.9	740.9	763.5
50°	618.2	631.1	668.2	716.7	740.9
52.5°	577.8	592.4	639.2	690.8	715.0
55°	535.9	553.6	606.9	661.8	687.6
57.5°	492.3	511.7	574.6	632.7	660.2
60°	447.1	471.3	540.7	602.1	631.1
62.5°	400.3	429.3	506.8	569.8	600.4
65°	351.9	385.8	471.3	537.5	568.2
67.5°	301.8	347.0	435.8	505.2	535.9
70°	251.8	305.1	398.7	469.7	500.4
72.5°	205.0	266.3	361.6	427.7	434.2
75°	159.8	227.6	322.8	329.3	318.0
77.5°	119.4	188.8	266.3	237.3	235.7
80°	85.5	151.7	171.1	175.9	177.5
82.5°	56.5	114.6	111.4	114.6	113.0
85°	33.9	56.5	58.1	56.5	53.3
87.5°	16.1	21.0	16.1	14.5	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)