

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: P263817

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263817  
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-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: 3165.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 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

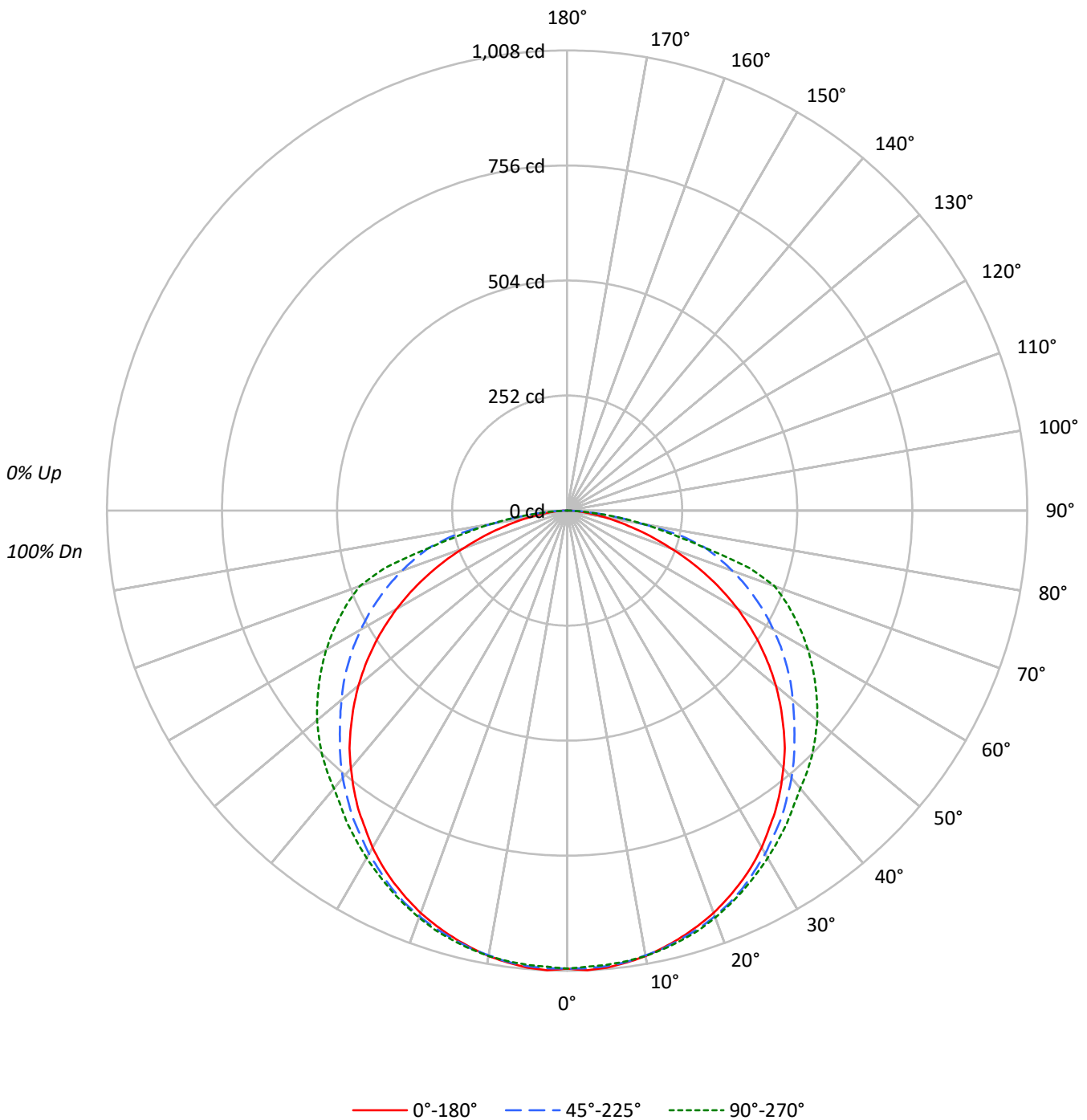
Input Watts (W): 36.363  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1350	1350	1350
5°	1357	1353	1349
10°	1354	1352	1354
15°	1348	1352	1356
20°	1343	1354	1359
25°	1334	1353	1360
30°	1324	1348	1365
35°	1310	1346	1377
40°	1294	1344	1396
45°	1275	1340	1444
50°	1249	1350	1497
55°	1213	1374	1557
60°	1161	1404	1639
65°	1081	1448	1746
70°	956	1514	1900
75°	802	1620	1595
80°	640	1279	1328
85°	505	866	794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.2	3.0
10°-20°	273.9	8.7
20°-30°	418.3	13.2
30°-40°	511.4	16.2
40°-50°	547.4	17.3
50°-60°	525.1	16.6
60°-70°	443.4	14.0
70°-80°	283.4	9.0
80°-90°	67.0	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°	787.4	24.9
0°-40°	1298.8	41.0
0°-60°	2371.3	74.9
0°-90°	3165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3165.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1005	999	1002	1000	999	95
15°	968	964	971	974	974	273
25°	899	897	911	914	916	414
35°	798	804	820	830	838	499
45°	670	681	704	737	759	517
55°	517	534	586	639	664	462
65°	340	372	455	519	548	335
75°	154	220	312	318	307	166
85°	33	54	56	54	51	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1003.3	1003.3	1003.3	1003.3	1003.3
2.5°	1008.0	1001.8	1003.3	1003.3	1000.2
5°	1004.9	998.7	1001.8	1000.2	998.7
7.5°	998.7	994.0	997.1	997.1	995.5
10°	990.9	986.2	989.3	990.9	990.9
12.5°	980.0	976.8	981.5	981.5	983.1
15°	967.5	964.4	970.6	973.7	973.7
17.5°	953.5	951.9	959.7	961.3	962.8
20°	937.9	936.3	945.7	945.7	948.8
22.5°	919.2	917.6	930.1	930.1	933.2
25°	898.9	897.4	911.4	914.5	916.1
27.5°	877.1	875.6	889.6	894.3	897.4
30°	852.2	852.2	867.8	874.0	878.7
32.5°	824.2	828.8	842.9	852.2	858.4
35°	797.7	803.9	819.5	830.4	838.2
37.5°	768.1	774.3	791.4	805.5	814.8
40°	736.9	744.7	765.0	780.5	794.6
42.5°	705.8	713.5	735.4	758.7	777.4
45°	669.9	680.8	704.2	736.9	758.7
47.5°	634.1	645.0	674.6	715.1	736.9
50°	596.7	609.2	645.0	691.7	715.1
52.5°	557.8	571.8	617.0	666.8	690.2
55°	517.2	534.4	585.8	638.8	663.7
57.5°	475.2	493.9	554.6	610.7	637.2
60°	431.6	454.9	521.9	581.1	609.2
62.5°	386.4	414.4	489.2	550.0	579.6
65°	339.6	372.4	454.9	518.8	548.4
67.5°	291.3	335.0	420.7	487.6	517.2
70°	243.0	294.5	384.8	453.4	483.0
72.5°	197.9	257.1	349.0	412.9	419.1
75°	154.2	219.7	311.6	317.8	306.9
77.5°	115.3	182.3	257.1	229.0	227.5
80°	82.6	146.4	165.1	169.8	171.4
82.5°	54.5	110.6	107.5	110.6	109.1
85°	32.7	54.5	56.1	54.5	51.4
87.5°	15.6	20.3	15.6	14.0	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)