

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: P263375

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2113.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

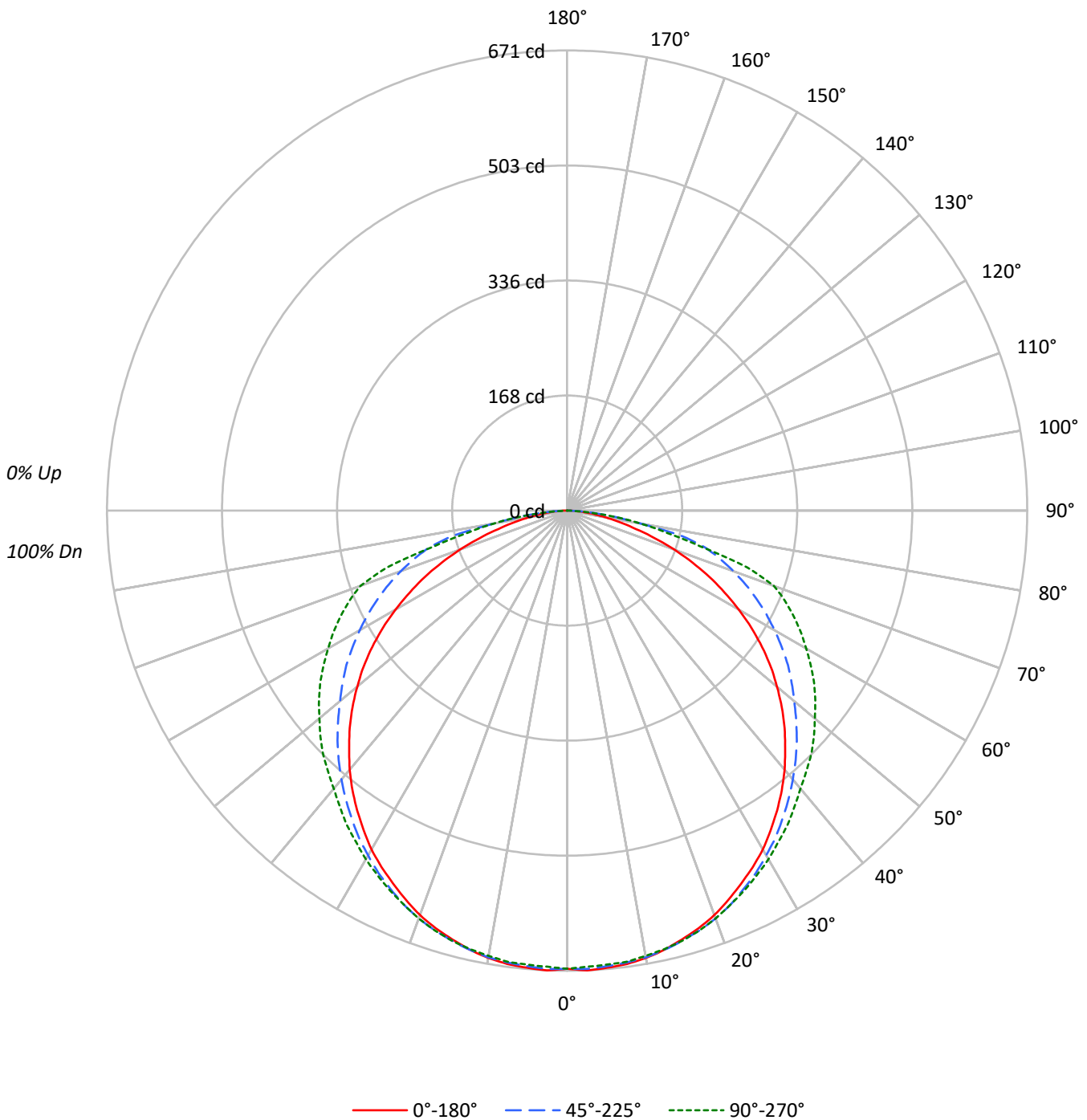
Input Watts (W): 28.179  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P263375

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P263375

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-2700K

**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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	899	899	899
5°	904	901	898
10°	905	904	901
15°	902	905	905
20°	899	906	906
25°	891	904	907
30°	887	902	912
35°	877	900	920
40°	866	899	930
45°	854	901	957
50°	836	905	987
55°	814	922	1032
60°	778	940	1084
65°	730	969	1160
70°	653	1013	1262
75°	539	1084	1044
80°	440	838	845
85°	354	556	522



TEST NUMBER: P263375

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	3.0
10°-20°	183.1	8.7
20°-30°	279.8	13.2
30°-40°	342.2	16.2
40°-50°	366.1	17.3
50°-60°	350.6	16.6
60°-70°	296.6	14.0
70°-80°	188.0	8.9
80°-90°	43.2	2.0
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°	526.3	24.9
0°-40°	868.4	41.1
0°-60°	1585.2	75.0
0°-90°	2113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	669	666	667	666	665	64
15°	647	646	649	649	649	183
25°	600	600	609	611	611	277
35°	534	537	548	556	560	334
45°	449	456	474	493	503	346
55°	347	358	393	426	440	310
65°	229	251	304	346	364	226
75°	104	146	208	207	201	113
85°	23	35	36	33	34	27
90°	0	0	0	0	0	



TEST NUMBER: P263375

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	668.0	668.0	668.0	668.0	668.0
2.5°	671.2	668.0	669.1	668.0	665.8
5°	669.1	665.8	666.9	665.8	664.7
7.5°	666.9	663.6	664.7	663.6	663.6
10°	662.5	659.2	661.4	660.3	659.2
12.5°	656.0	653.8	656.0	654.9	654.9
15°	647.2	646.1	649.4	649.4	649.4
17.5°	638.5	637.4	641.8	641.8	641.8
20°	627.6	626.5	633.0	633.0	633.0
22.5°	614.5	613.4	622.1	622.1	622.1
25°	600.3	600.3	609.0	611.2	611.2
27.5°	586.1	586.1	595.9	599.2	599.2
30°	570.8	570.8	580.6	585.0	587.2
32.5°	552.3	554.4	565.4	570.8	573.0
35°	533.7	537.0	547.9	555.5	559.9
37.5°	514.1	517.3	530.4	539.2	544.6
40°	493.3	497.7	511.9	522.8	529.3
42.5°	470.4	477.0	493.3	507.5	516.2
45°	448.6	456.2	473.7	493.3	503.2
47.5°	424.6	433.3	452.9	478.0	487.9
50°	399.5	408.2	432.2	460.6	471.5
52.5°	374.4	384.2	412.6	443.1	456.2
55°	347.1	358.0	392.9	425.7	439.8
57.5°	318.7	331.8	371.1	406.0	421.3
60°	289.2	305.6	349.3	386.4	402.7
62.5°	258.7	278.3	327.4	366.7	384.2
65°	229.2	251.0	304.5	346.0	364.5
67.5°	197.5	224.8	281.6	326.3	343.8
70°	165.9	197.5	257.6	303.4	320.9
72.5°	134.2	172.4	233.6	275.0	275.0
75°	103.7	146.3	208.5	207.4	200.8
77.5°	78.6	122.2	171.4	146.3	147.3
80°	56.8	98.2	108.1	108.1	109.1
82.5°	38.2	75.3	69.9	68.8	70.9
85°	22.9	34.9	36.0	32.7	33.8
87.5°	10.9	12.0	9.8	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)