

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: P263222

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263222  
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-LD5-30-SQP-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1865.0 lumens  
Efficiency: N/A  
Efficacy: 95.0 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

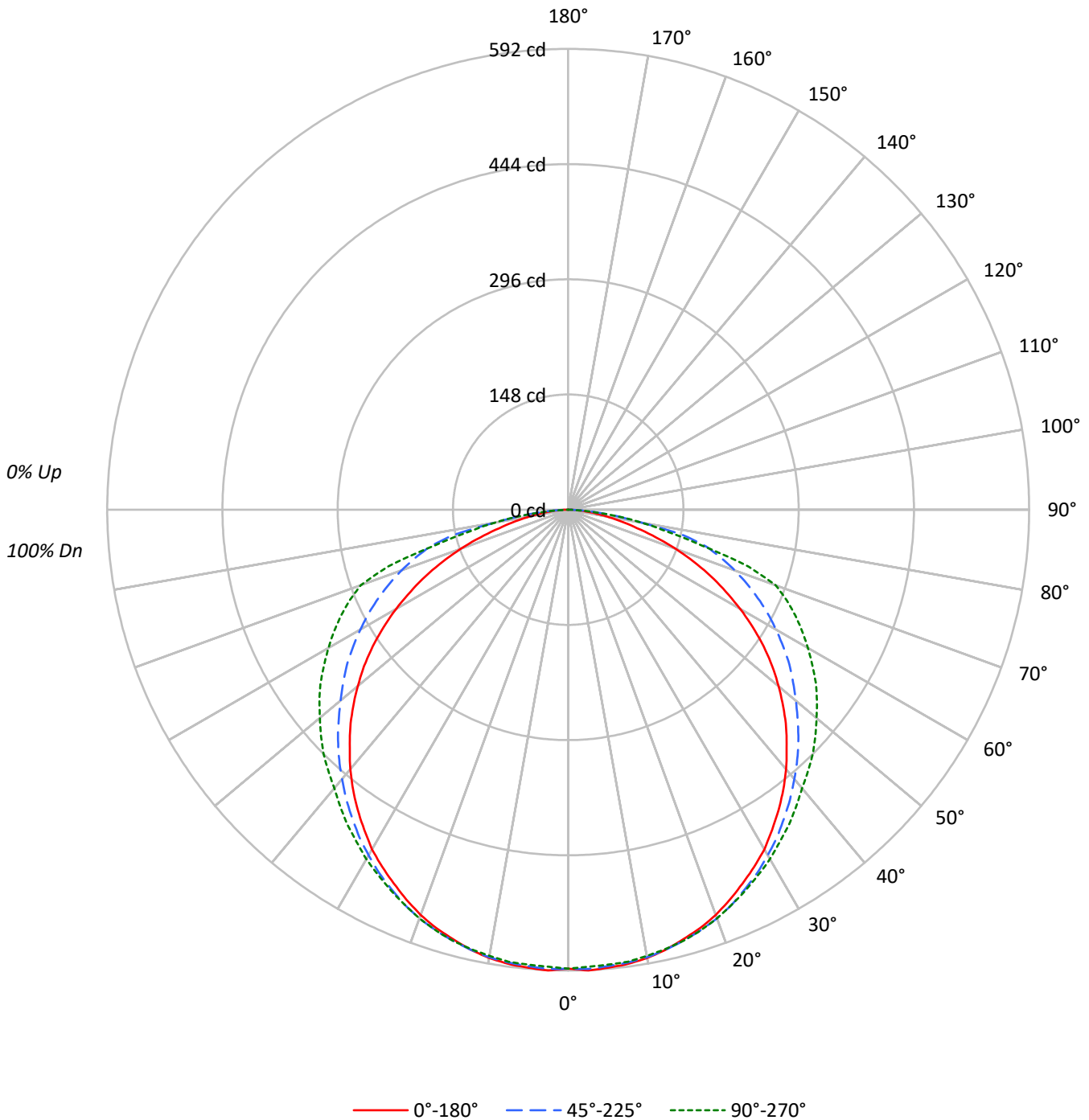
Input Watts (W): 19.623  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P263222

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P263222

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-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°	793	793	793
5°	798	795	792
10°	799	798	795
15°	796	798	798
20°	793	800	800
25°	787	798	801
30°	783	796	805
35°	774	794	812
40°	765	794	821
45°	753	796	845
50°	738	799	871
55°	719	814	911
60°	687	830	957
65°	644	856	1025
70°	576	894	1114
75°	476	957	922
80°	388	739	746
85°	312	491	462



TEST NUMBER: P263222

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.0	3.0
10°-20°	161.6	8.7
20°-30°	246.9	13.2
30°-40°	302.0	16.2
40°-50°	323.2	17.3
50°-60°	309.4	16.6
60°-70°	261.8	14.0
70°-80°	165.9	8.9
80°-90°	38.2	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°	464.5	24.9
0°-40°	766.5	41.1
0°-60°	1399.1	75.0
0°-90°	1865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1865.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	590	588	589	588	587	56
15°	571	570	573	573	573	161
25°	530	530	538	540	540	244
35°	471	474	484	490	494	295
45°	396	403	418	435	444	305
55°	306	316	347	376	388	273
65°	202	222	269	305	322	199
75°	92	129	184	183	177	100
85°	20	31	32	29	30	24
90°	0	0	0	0	0	



TEST NUMBER: P263222

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	589.6	589.6	589.6	589.6	589.6
2.5°	592.5	589.6	590.5	589.6	587.6
5°	590.5	587.6	588.6	587.6	586.7
7.5°	588.6	585.7	586.7	585.7	585.7
10°	584.7	581.9	583.8	582.8	581.9
12.5°	579.0	577.0	579.0	578.0	578.0
15°	571.3	570.3	573.2	573.2	573.2
17.5°	563.6	562.6	566.4	566.4	566.4
20°	553.9	553.0	558.7	558.7	558.7
22.5°	542.4	541.4	549.1	549.1	549.1
25°	529.8	529.8	537.5	539.5	539.5
27.5°	517.3	517.3	526.0	528.9	528.9
30°	503.8	503.8	512.5	516.3	518.3
32.5°	487.4	489.4	499.0	503.8	505.8
35°	471.1	474.0	483.6	490.3	494.2
37.5°	453.7	456.6	468.2	475.9	480.7
40°	435.4	439.3	451.8	461.4	467.2
42.5°	415.2	421.0	435.4	448.0	455.7
45°	395.9	402.7	418.1	435.4	444.1
47.5°	374.7	382.4	399.8	421.9	430.6
50°	352.6	360.3	381.5	406.5	416.2
52.5°	330.4	339.1	364.1	391.1	402.7
55°	306.3	316.0	346.8	375.7	388.2
57.5°	281.3	292.9	327.5	358.4	371.8
60°	255.3	269.7	308.3	341.0	355.5
62.5°	228.3	245.7	289.0	323.7	339.1
65°	202.3	221.6	268.8	305.4	321.8
67.5°	174.4	198.4	248.5	288.0	303.5
70°	146.4	174.4	227.3	267.8	283.2
72.5°	118.5	152.2	206.2	242.8	242.8
75°	91.5	129.1	184.0	183.0	177.3
77.5°	69.4	107.9	151.2	129.1	130.1
80°	50.1	86.7	95.4	95.4	96.3
82.5°	33.7	66.5	61.7	60.7	62.6
85°	20.2	30.8	31.8	28.9	29.9
87.5°	9.6	10.6	8.7	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)