

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: P263320

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263320
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-LD5-30SE-SQP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2099.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

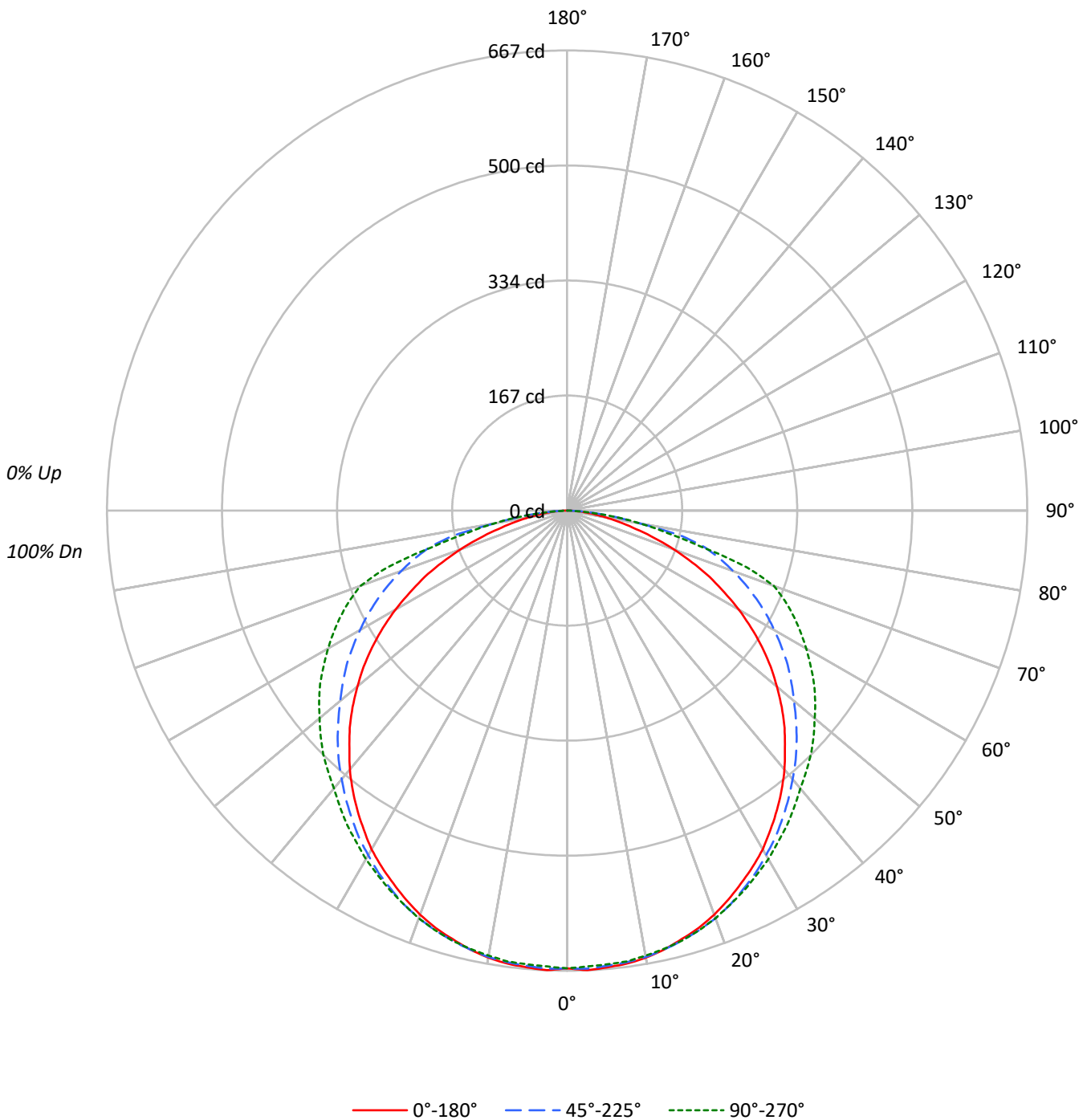
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263320

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P263320

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L82765-W2A1-U-6500K

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°	893	893	893
5°	898	895	892
10°	899	898	895
15°	896	899	899
20°	893	900	900
25°	885	898	901
30°	881	896	906
35°	871	894	914
40°	861	893	924
45°	848	895	951
50°	831	899	980
55°	809	916	1025
60°	773	934	1077
65°	725	963	1153
70°	648	1007	1254
75°	535	1077	1037
80°	437	831	840
85°	352	553	519



TEST NUMBER: P263320

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	3.0
10°-20°	181.8	8.7
20°-30°	277.9	13.2
30°-40°	339.9	16.2
40°-50°	363.7	17.3
50°-60°	348.3	16.6
60°-70°	294.6	14.0
70°-80°	186.7	8.9
80°-90°	43.0	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°	522.8	24.9
0°-40°	862.7	41.1
0°-60°	1574.6	75.0
0°-90°	2099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	665	661	662	661	660	63
15°	643	642	645	645	645	182
25°	596	596	605	607	607	275
35°	530	533	544	552	556	332
45°	446	453	470	490	500	343
55°	345	356	390	423	437	308
65°	228	249	302	344	362	224
75°	103	145	207	206	200	112
85°	23	35	36	32	34	27
90°	0	0	0	0	0	



TEST NUMBER: P263320

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	663.5	663.5	663.5	663.5	663.5
2.5°	666.8	663.5	664.6	663.5	661.4
5°	664.6	661.4	662.4	661.4	660.3
7.5°	662.4	659.2	660.3	659.2	659.2
10°	658.1	654.9	657.0	655.9	654.9
12.5°	651.6	649.4	651.6	650.5	650.5
15°	642.9	641.8	645.1	645.1	645.1
17.5°	634.3	633.2	637.5	637.5	637.5
20°	623.4	622.3	628.8	628.8	628.8
22.5°	610.4	609.3	618.0	618.0	618.0
25°	596.3	596.3	605.0	607.2	607.2
27.5°	582.2	582.2	592.0	595.2	595.2
30°	567.0	567.0	576.8	581.1	583.3
32.5°	548.6	550.8	561.6	567.0	569.2
35°	530.2	533.4	544.3	551.9	556.2
37.5°	510.7	513.9	526.9	535.6	541.0
40°	490.1	494.4	508.5	519.3	525.8
42.5°	467.3	473.8	490.1	504.2	512.8
45°	445.6	453.2	470.5	490.1	499.8
47.5°	421.8	430.4	449.9	474.9	484.6
50°	396.8	405.5	429.3	457.5	468.4
52.5°	371.9	381.6	409.8	440.2	453.2
55°	344.8	355.6	390.3	422.8	436.9
57.5°	316.6	329.6	368.6	403.3	418.5
60°	287.3	303.6	346.9	383.8	400.1
62.5°	257.0	276.5	325.3	364.3	381.6
65°	227.7	249.4	302.5	343.7	362.1
67.5°	196.2	223.3	279.7	324.2	341.5
70°	164.8	196.2	255.9	301.4	318.8
72.5°	133.4	171.3	232.0	273.2	273.2
75°	103.0	145.3	207.1	206.0	199.5
77.5°	78.1	121.4	170.2	145.3	146.4
80°	56.4	97.6	107.3	107.3	108.4
82.5°	37.9	74.8	69.4	68.3	70.5
85°	22.8	34.7	35.8	32.5	33.6
87.5°	10.8	11.9	9.8	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)