

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: P263453

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263453
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-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1885.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

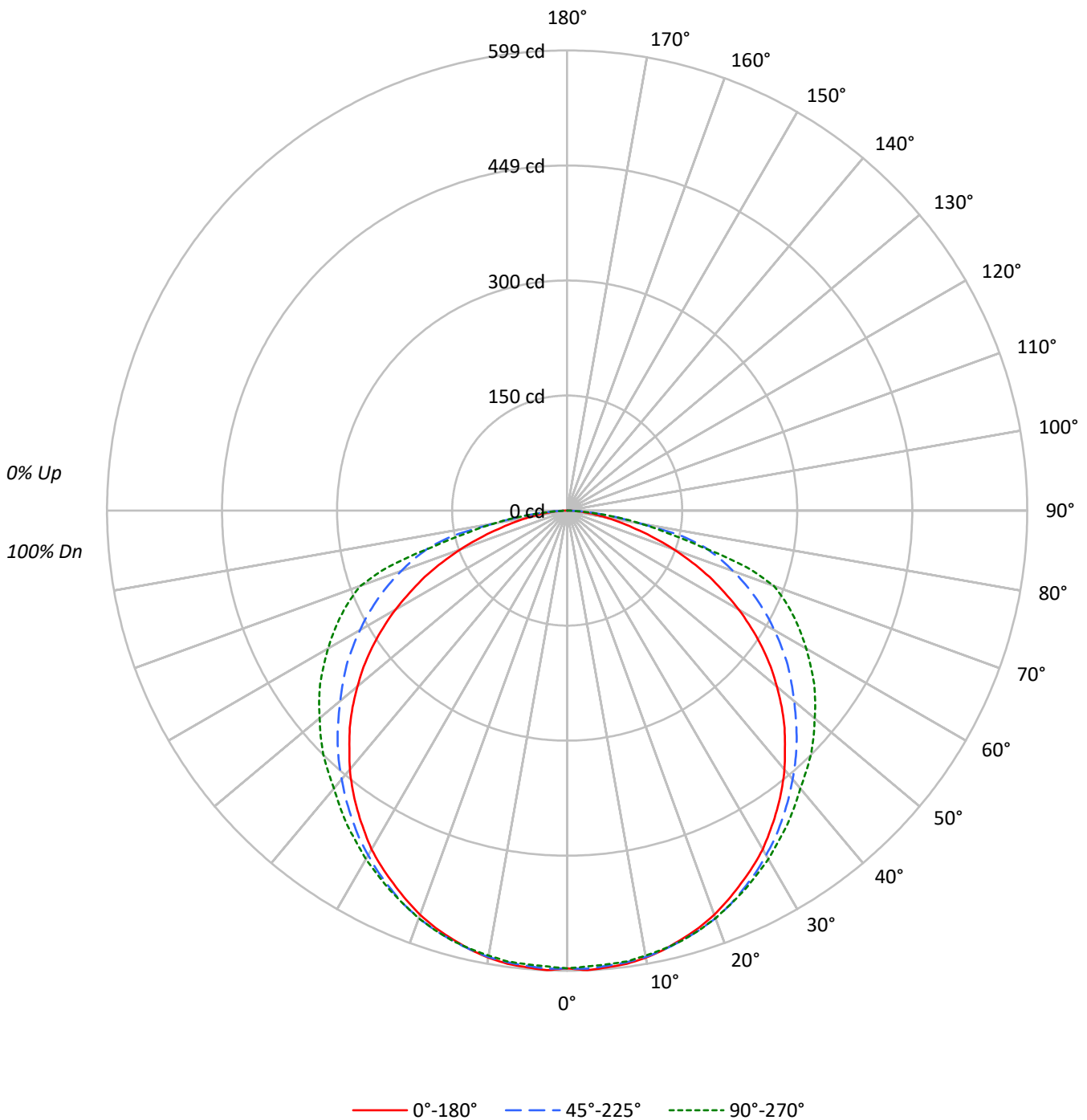
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263453

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P263453

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-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	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°	802	802	802
5°	806	803	801
10°	807	806	803
15°	804	807	807
20°	802	809	809
25°	795	807	810
30°	791	805	814
35°	782	803	820
40°	773	802	829
45°	762	804	854
50°	746	807	880
55°	726	822	920
60°	694	839	967
65°	651	865	1035
70°	582	904	1126
75°	481	967	932
80°	392	747	755
85°	315	496	466



TEST NUMBER: P263453

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	3.0
10°-20°	163.3	8.7
20°-30°	249.6	13.2
30°-40°	305.3	16.2
40°-50°	326.6	17.3
50°-60°	312.8	16.6
60°-70°	264.6	14.0
70°-80°	167.7	8.9
80°-90°	38.6	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°	469.5	24.9
0°-40°	774.7	41.1
0°-60°	1414.1	75.0
0°-90°	1885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	597	594	595	594	593	57
15°	577	576	579	579	579	163
25°	536	536	543	545	545	247
35°	476	479	489	496	500	298
45°	400	407	423	440	449	308
55°	310	319	350	380	392	276
65°	204	224	272	309	325	201
75°	92	130	186	185	179	101
85°	20	31	32	29	30	24
90°	0	0	0	0	0	



TEST NUMBER: P263453

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.9	595.9	595.9	595.9	595.9
2.5°	598.8	595.9	596.9	595.9	593.9
5°	596.9	593.9	594.9	593.9	593.0
7.5°	594.9	592.0	593.0	592.0	592.0
10°	591.0	588.1	590.0	589.1	588.1
12.5°	585.2	583.2	585.2	584.2	584.2
15°	577.4	576.4	579.3	579.3	579.3
17.5°	569.6	568.6	572.5	572.5	572.5
20°	559.9	558.9	564.7	564.7	564.7
22.5°	548.2	547.2	555.0	555.0	555.0
25°	535.5	535.5	543.3	545.3	545.3
27.5°	522.9	522.9	531.6	534.5	534.5
30°	509.2	509.2	518.0	521.9	523.8
32.5°	492.7	494.6	504.4	509.2	511.2
35°	476.1	479.0	488.8	495.6	499.5
37.5°	458.6	461.5	473.2	481.0	485.9
40°	440.1	444.0	456.6	466.4	472.2
42.5°	419.7	425.5	440.1	452.8	460.5
45°	400.2	407.0	422.6	440.1	448.9
47.5°	378.8	386.5	404.1	426.5	435.2
50°	356.4	364.2	385.6	410.9	420.6
52.5°	334.0	342.7	368.0	395.3	407.0
55°	309.6	319.4	350.5	379.7	392.4
57.5°	284.3	296.0	331.0	362.2	375.8
60°	258.0	272.6	311.6	344.7	359.3
62.5°	230.8	248.3	292.1	327.2	342.7
65°	204.5	223.9	271.7	308.7	325.2
67.5°	176.2	200.6	251.2	291.1	306.7
70°	148.0	176.2	229.8	270.7	286.3
72.5°	119.8	153.8	208.4	245.4	245.4
75°	92.5	130.5	186.0	185.0	179.2
77.5°	70.1	109.1	152.9	130.5	131.4
80°	50.6	87.6	96.4	96.4	97.4
82.5°	34.1	67.2	62.3	61.3	63.3
85°	20.4	31.2	32.1	29.2	30.2
87.5°	9.7	10.7	8.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)