

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: P263225

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263225
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2028.0 lumens
Efficiency: N/A
Efficacy: 102.4 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

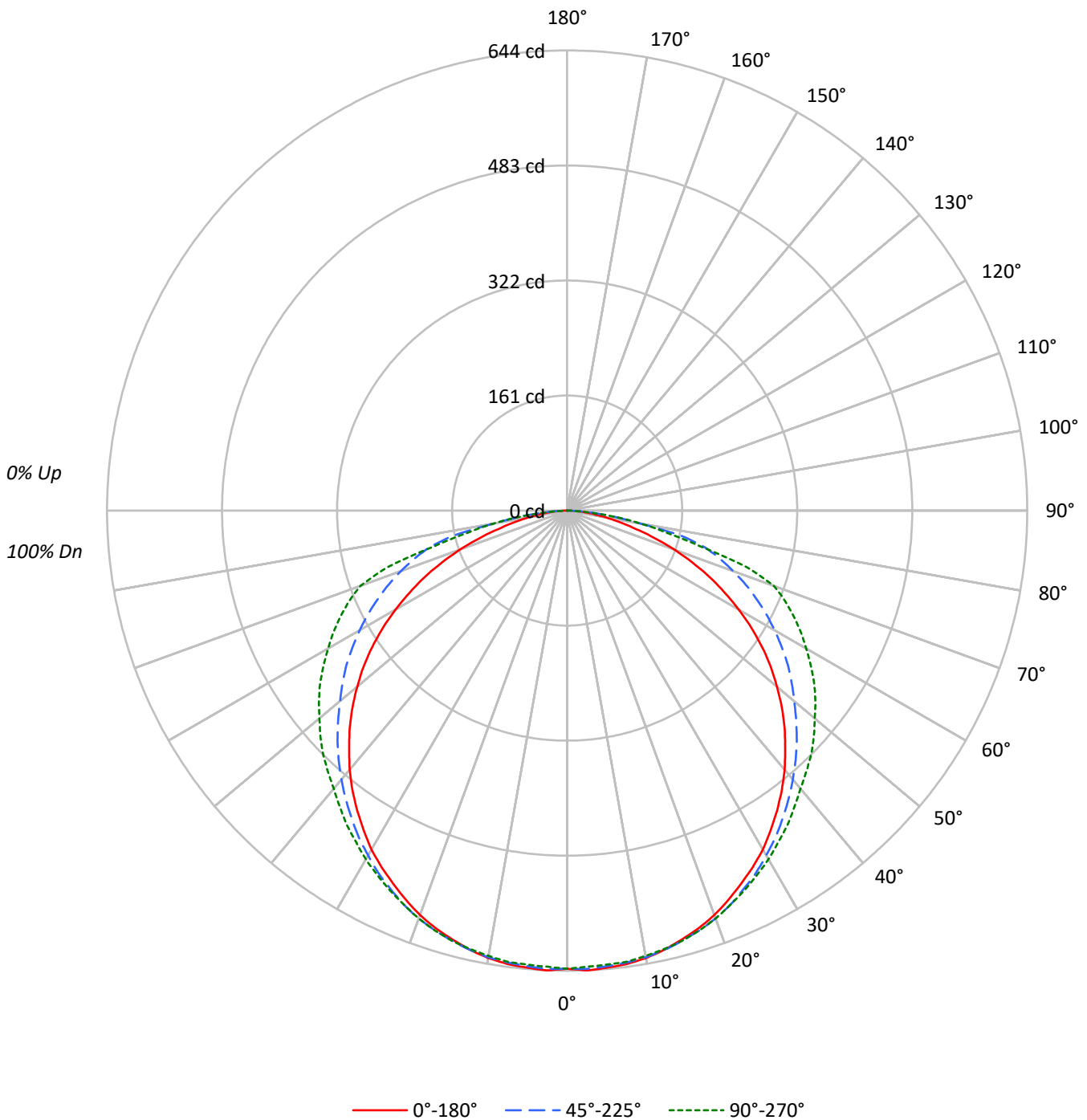
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263225

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P263225

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-4000K

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°	863	863	863
5°	867	864	862
10°	869	867	864
15°	865	868	868
20°	862	870	870
25°	855	868	871
30°	851	866	876
35°	841	864	883
40°	832	863	892
45°	819	865	919
50°	803	868	947
55°	781	885	990
60°	747	902	1040
65°	700	931	1114
70°	626	972	1212
75°	517	1040	1002
80°	422	804	812
85°	340	534	502



TEST NUMBER: P263225

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	3.0
10°-20°	175.7	8.7
20°-30°	268.5	13.2
30°-40°	328.4	16.2
40°-50°	351.4	17.3
50°-60°	336.5	16.6
60°-70°	284.7	14.0
70°-80°	180.4	8.9
80°-90°	41.5	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°	505.1	24.9
0°-40°	833.5	41.1
0°-60°	1521.4	75.0
0°-90°	2028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	642	639	640	639	638	61
15°	621	620	623	623	623	175
25°	576	576	584	587	587	266
35°	512	515	526	533	537	320
45°	430	438	455	474	483	332
55°	333	344	377	408	422	297
65°	220	241	292	332	350	217
75°	100	140	200	199	193	108
85°	22	34	35	31	32	26
90°	0	0	0	0	0	



TEST NUMBER: P263225

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	641.1	641.1	641.1	641.1	641.1
2.5°	644.2	641.1	642.1	641.1	639.0
5°	642.1	639.0	640.0	639.0	637.9
7.5°	640.0	636.9	637.9	636.9	636.9
10°	635.9	632.7	634.8	633.8	632.7
12.5°	629.6	627.5	629.6	628.5	628.5
15°	621.2	620.1	623.3	623.3	623.3
17.5°	612.8	611.8	615.9	615.9	615.9
20°	602.3	601.3	607.6	607.6	607.6
22.5°	589.8	588.7	597.1	597.1	597.1
25°	576.1	576.1	584.5	586.6	586.6
27.5°	562.5	562.5	572.0	575.1	575.1
30°	547.9	547.9	557.3	561.5	563.6
32.5°	530.1	532.1	542.6	547.9	550.0
35°	512.2	515.4	525.9	533.2	537.4
37.5°	493.4	496.5	509.1	517.5	522.7
40°	473.5	477.7	491.3	501.8	508.1
42.5°	451.5	457.8	473.5	487.1	495.5
45°	430.5	437.9	454.6	473.5	482.9
47.5°	407.5	415.9	434.7	458.8	468.2
50°	383.4	391.8	414.8	442.1	452.5
52.5°	359.3	368.7	396.0	425.3	437.9
55°	333.1	343.6	377.1	408.5	422.2
57.5°	305.9	318.4	356.2	389.7	404.3
60°	277.6	293.3	335.2	370.8	386.5
62.5°	248.3	267.1	314.3	352.0	368.7
65°	220.0	240.9	292.3	332.1	349.9
67.5°	189.6	215.8	270.3	313.2	330.0
70°	159.2	189.6	247.2	291.2	308.0
72.5°	128.8	165.5	224.2	264.0	264.0
75°	99.5	140.4	200.1	199.0	192.7
77.5°	75.4	117.3	164.5	140.4	141.4
80°	54.5	94.3	103.7	103.7	104.8
82.5°	36.7	72.3	67.0	66.0	68.1
85°	22.0	33.5	34.6	31.4	32.5
87.5°	10.5	11.5	9.4	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)