

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: P263642

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1958.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

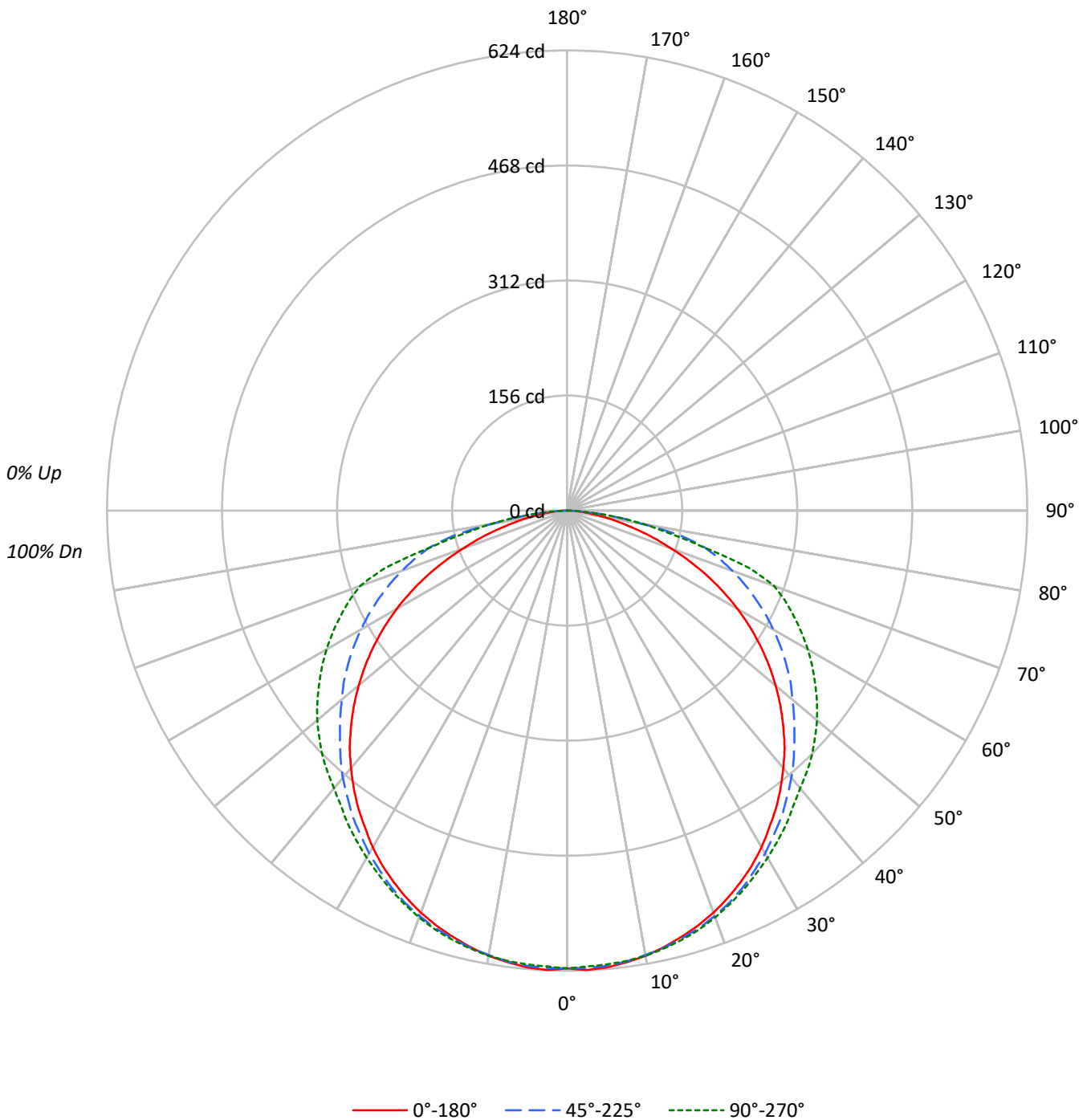
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263642

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

Luminous Intensity Polar Plot





TEST NUMBER: P263642

CATALOG NUMBER: 24CZ-LD5-30-RDP-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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	835	835	835
5°	840	837	834
10°	838	836	838
15°	834	836	839
20°	831	838	840
25°	826	837	841
30°	819	834	845
35°	811	833	852
40°	801	831	863
45°	789	829	893
50°	773	835	926
55°	751	850	963
60°	718	869	1014
65°	669	896	1080
70°	592	937	1175
75°	496	1002	987
80°	396	792	821
85°	312	536	491



TEST NUMBER: P263642

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	3.0
10°-20°	169.4	8.7
20°-30°	258.8	13.2
30°-40°	316.4	16.2
40°-50°	338.7	17.3
50°-60°	324.8	16.6
60°-70°	274.3	14.0
70°-80°	175.3	9.0
80°-90°	41.4	2.1
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°	487.1	24.9
0°-40°	803.5	41.0
0°-60°	1467.0	74.9
0°-90°	1958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	621	621	621	621	621	
5°	622	618	620	619	618	59
15°	598	597	600	602	602	169
25°	556	555	564	566	567	256
35°	494	497	507	514	518	309
45°	414	421	436	456	469	320
55°	320	331	362	395	411	286
65°	210	230	281	321	339	207
75°	95	136	193	197	190	103
85°	20	34	35	34	32	24
90°	0	0	0	0	0	



TEST NUMBER: P263642

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	620.7	620.7	620.7	620.7	620.7
2.5°	623.6	619.7	620.7	620.7	618.8
5°	621.7	617.8	619.7	618.8	617.8
7.5°	617.8	614.9	616.8	616.8	615.9
10°	613.0	610.1	612.0	613.0	613.0
12.5°	606.2	604.3	607.2	607.2	608.2
15°	598.5	596.6	600.5	602.4	602.4
17.5°	589.9	588.9	593.7	594.7	595.6
20°	580.2	579.3	585.0	585.0	587.0
22.5°	568.7	567.7	575.4	575.4	577.3
25°	556.1	555.2	563.8	565.8	566.7
27.5°	542.6	541.7	550.3	553.2	555.2
30°	527.2	527.2	536.8	540.7	543.6
32.5°	509.9	512.8	521.4	527.2	531.1
35°	493.5	497.3	507.0	513.7	518.5
37.5°	475.2	479.0	489.6	498.3	504.1
40°	455.9	460.7	473.2	482.9	491.6
42.5°	436.6	441.4	454.9	469.4	480.9
45°	414.4	421.2	435.6	455.9	469.4
47.5°	392.3	399.0	417.3	442.4	455.9
50°	369.1	376.9	399.0	427.9	442.4
52.5°	345.0	353.7	381.7	412.5	427.0
55°	320.0	330.6	362.4	395.2	410.6
57.5°	294.0	305.5	343.1	377.8	394.2
60°	267.0	281.4	322.9	359.5	376.9
62.5°	239.0	256.4	302.6	340.2	358.5
65°	210.1	230.4	281.4	321.0	339.3
67.5°	180.2	207.2	260.2	301.7	320.0
70°	150.4	182.2	238.1	280.5	298.8
72.5°	122.4	159.0	215.9	255.4	259.3
75°	95.4	135.9	192.8	196.6	189.9
77.5°	71.3	112.8	159.0	141.7	140.7
80°	51.1	90.6	102.2	105.1	106.0
82.5°	33.7	68.4	66.5	68.4	67.5
85°	20.2	33.7	34.7	33.7	31.8
87.5°	9.6	12.5	9.6	8.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)