

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: P263786

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263786
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-LD5-35-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1917.0 lumens
Efficiency: N/A
Efficacy: 79.6 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

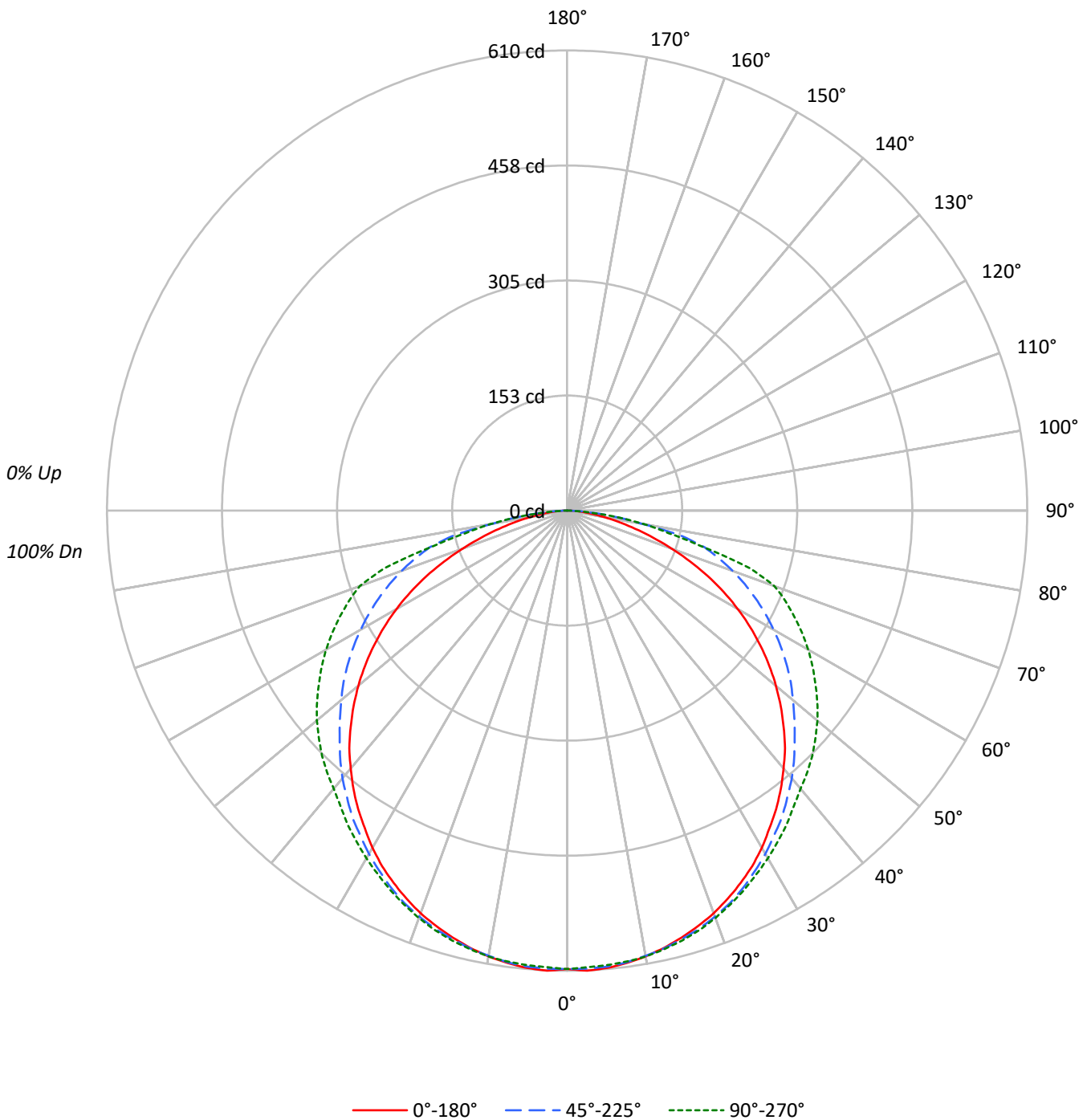
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263786

CATALOG NUMBER: 24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P263786

CATALOG NUMBER: 24CZ-LD5-35-RDP-UNV-L92765-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°	818	818	818
5°	822	820	817
10°	820	819	820
15°	816	819	822
20°	813	820	823
25°	808	819	824
30°	802	817	827
35°	794	815	834
40°	784	814	845
45°	772	812	875
50°	756	818	907
55°	735	832	943
60°	703	851	993
65°	655	877	1058
70°	579	917	1151
75°	486	981	966
80°	387	775	804
85°	306	525	480



TEST NUMBER: P263786

CATALOG NUMBER: 24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.0
10°-20°	165.9	8.7
20°-30°	253.4	13.2
30°-40°	309.8	16.2
40°-50°	331.6	17.3
50°-60°	318.0	16.6
60°-70°	268.5	14.0
70°-80°	171.6	9.0
80°-90°	40.6	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°	476.9	24.9
0°-40°	786.7	41.0
0°-60°	1436.3	74.9
0°-90°	1917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	609	605	607	606	605	58
15°	586	584	588	590	590	165
25°	544	544	552	554	555	251
35°	483	487	496	503	508	302
45°	406	412	426	446	460	313
55°	313	324	355	387	402	280
65°	206	226	276	314	332	203
75°	93	133	189	192	186	101
85°	20	33	34	33	31	24
90°	0	0	0	0	0	



TEST NUMBER: P263786

CATALOG NUMBER: 24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	607.7	607.7	607.7	607.7	607.7
2.5°	610.5	606.8	607.7	607.7	605.8
5°	608.6	604.9	606.8	605.8	604.9
7.5°	604.9	602.0	603.9	603.9	603.0
10°	600.2	597.3	599.2	600.2	600.2
12.5°	593.6	591.7	594.5	594.5	595.4
15°	586.0	584.1	587.9	589.8	589.8
17.5°	577.5	576.6	581.3	582.2	583.2
20°	568.1	567.1	572.8	572.8	574.7
22.5°	556.7	555.8	563.4	563.4	565.2
25°	544.5	543.5	552.0	553.9	554.9
27.5°	531.3	530.3	538.8	541.7	543.5
30°	516.2	516.2	525.6	529.4	532.2
32.5°	499.2	502.0	510.5	516.2	519.9
35°	483.1	486.9	496.4	503.0	507.7
37.5°	465.2	469.0	479.4	487.9	493.5
40°	446.3	451.1	463.3	472.8	481.3
42.5°	427.5	432.2	445.4	459.6	470.9
45°	405.8	412.4	426.5	446.3	459.6
47.5°	384.1	390.7	408.6	433.1	446.3
50°	361.4	369.0	390.7	419.0	433.1
52.5°	337.8	346.3	373.7	403.9	418.0
55°	313.3	323.7	354.8	386.9	402.0
57.5°	287.8	299.1	335.9	369.9	385.9
60°	261.4	275.5	316.1	352.0	369.0
62.5°	234.0	251.0	296.3	333.1	351.0
65°	205.7	225.5	275.5	314.2	332.2
67.5°	176.5	202.9	254.8	295.4	313.3
70°	147.2	178.3	233.1	274.6	292.5
72.5°	119.8	155.7	211.4	250.1	253.8
75°	93.4	133.1	188.7	192.5	185.9
77.5°	69.8	110.4	155.7	138.7	137.8
80°	50.0	88.7	100.0	102.9	103.8
82.5°	33.0	67.0	65.1	67.0	66.1
85°	19.8	33.0	34.0	33.0	31.1
87.5°	9.4	12.3	9.4	8.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)