

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: P263877

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263877
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-LD5-35SE-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2014.0 lumens
Efficiency: N/A
Efficacy: 78.2 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

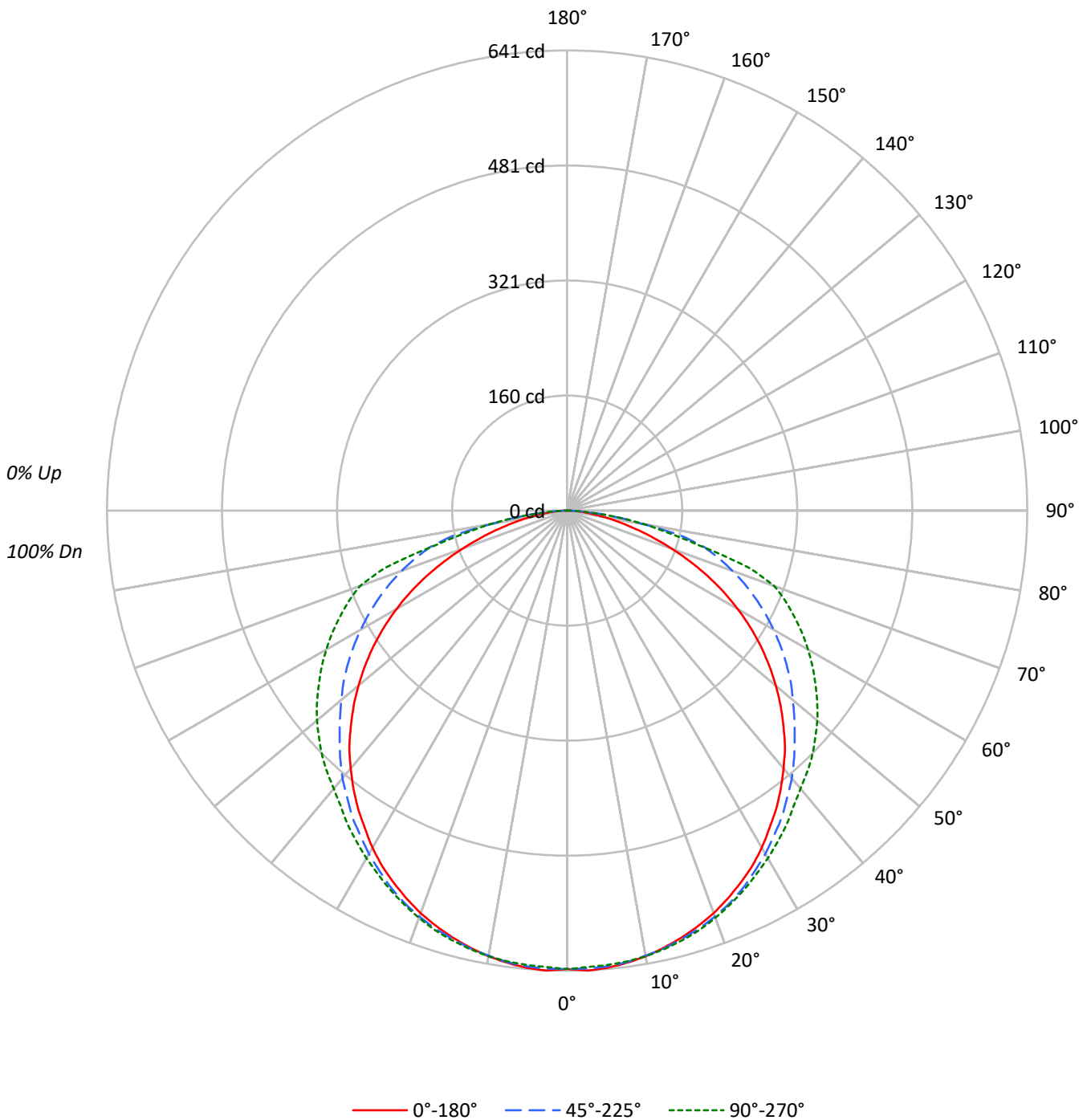
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263877

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P263877

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-3000K

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°	859	859	859
5°	864	861	858
10°	861	860	861
15°	858	860	863
20°	855	862	865
25°	849	861	865
30°	843	858	869
35°	834	857	876
40°	824	855	888
45°	811	853	919
50°	795	859	952
55°	772	875	991
60°	739	894	1043
65°	688	922	1111
70°	609	963	1209
75°	510	1031	1015
80°	407	814	845
85°	321	551	505



TEST NUMBER: P263877

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.0
10°-20°	174.3	8.7
20°-30°	266.2	13.2
30°-40°	325.4	16.2
40°-50°	348.3	17.3
50°-60°	334.1	16.6
60°-70°	282.1	14.0
70°-80°	180.3	9.0
80°-90°	42.6	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°	501.0	24.9
0°-40°	826.5	41.0
0°-60°	1508.9	74.9
0°-90°	2014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	639	636	638	636	636	61
15°	616	614	618	620	620	174
25°	572	571	580	582	583	264
35°	508	512	522	528	533	317
45°	426	433	448	469	483	329
55°	329	340	373	406	422	294
65°	216	237	290	330	349	213
75°	98	140	198	202	195	106
85°	21	35	36	35	33	25
90°	0	0	0	0	0	



TEST NUMBER: P263877

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.5	638.5	638.5	638.5	638.5
2.5°	641.4	637.5	638.5	638.5	636.5
5°	639.4	635.5	637.5	636.5	635.5
7.5°	635.5	632.5	634.5	634.5	633.5
10°	630.5	627.5	629.5	630.5	630.5
12.5°	623.6	621.6	624.6	624.6	625.6
15°	615.7	613.7	617.6	619.6	619.6
17.5°	606.7	605.7	610.7	611.7	612.7
20°	596.8	595.8	601.8	601.8	603.8
22.5°	584.9	583.9	591.9	591.9	593.8
25°	572.0	571.0	580.0	581.9	582.9
27.5°	558.2	557.2	566.1	569.1	571.0
30°	542.3	542.3	552.2	556.2	559.1
32.5°	524.4	527.4	536.3	542.3	546.3
35°	507.6	511.6	521.5	528.4	533.4
37.5°	488.8	492.7	503.6	512.5	518.5
40°	468.9	473.9	486.8	496.7	505.6
42.5°	449.1	454.1	467.9	482.8	494.7
45°	426.3	433.2	448.1	468.9	482.8
47.5°	403.5	410.4	429.3	455.0	468.9
50°	379.7	387.6	410.4	440.2	455.0
52.5°	354.9	363.8	392.6	424.3	439.2
55°	329.1	340.0	372.8	406.5	422.3
57.5°	302.4	314.3	352.9	388.6	405.5
60°	274.6	289.5	332.1	369.8	387.6
62.5°	245.9	263.7	311.3	350.0	368.8
65°	216.1	236.9	289.5	330.1	349.0
67.5°	185.4	213.1	267.7	310.3	329.1
70°	154.7	187.4	244.9	288.5	307.3
72.5°	125.9	163.6	222.1	262.7	266.7
75°	98.1	139.8	198.3	202.2	195.3
77.5°	73.4	116.0	163.6	145.7	144.7
80°	52.5	93.2	105.1	108.1	109.1
82.5°	34.7	70.4	68.4	70.4	69.4
85°	20.8	34.7	35.7	34.7	32.7
87.5°	9.9	12.9	9.9	8.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)