

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: P263884

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263884
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2346.0 lumens
Efficiency: N/A
Efficacy: 86.1 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

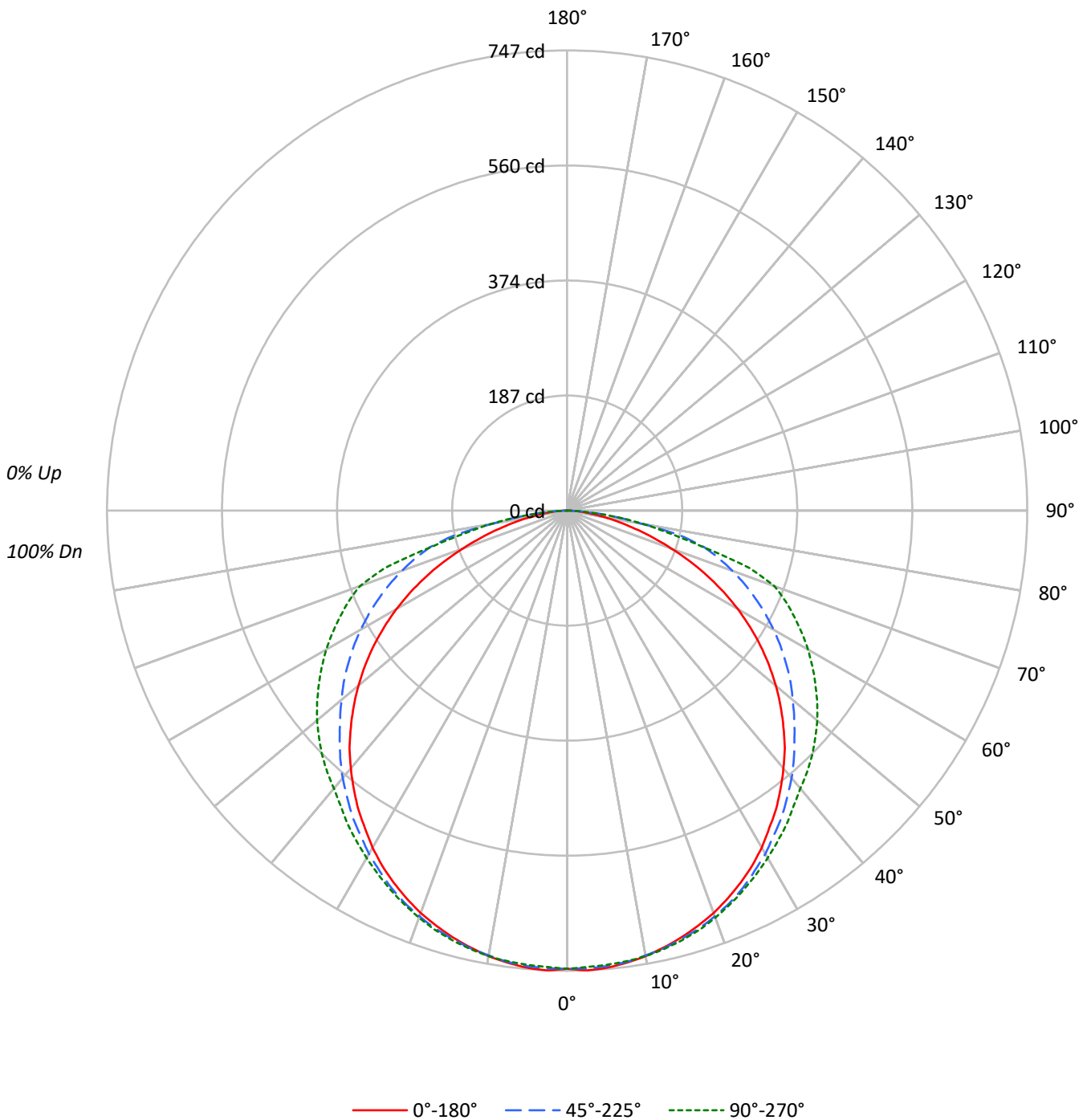
Input Watts (W): 27.249
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263884

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P263884

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-6500K

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°	1001	1001	1001
5°	1006	1003	1000
10°	1004	1002	1004
15°	999	1002	1005
20°	995	1004	1007
25°	989	1003	1008
30°	981	999	1012
35°	971	998	1021
40°	959	996	1035
45°	945	993	1070
50°	926	1001	1110
55°	899	1019	1154
60°	861	1041	1215
65°	801	1074	1294
70°	709	1122	1408
75°	594	1201	1183
80°	474	948	984
85°	375	642	588



TEST NUMBER: P263884

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.0
10°-20°	203.0	8.7
20°-30°	310.1	13.2
30°-40°	379.1	16.2
40°-50°	405.8	17.3
50°-60°	389.2	16.6
60°-70°	328.6	14.0
70°-80°	210.0	9.0
80°-90°	49.7	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°	583.6	24.9
0°-40°	962.7	41.0
0°-60°	1757.7	74.9
0°-90°	2346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	745	740	742	741	740	71
15°	717	715	720	722	722	202
25°	666	665	676	678	679	307
35°	591	596	607	616	621	370
45°	497	505	522	546	562	383
55°	383	396	434	474	492	342
65°	252	276	337	385	406	248
75°	114	163	231	236	228	123
85°	24	40	42	40	38	29
90°	0	0	0	0	0	



TEST NUMBER: P263884

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.7	743.7	743.7	743.7	743.7
2.5°	747.2	742.5	743.7	743.7	741.4
5°	744.9	740.2	742.5	741.4	740.2
7.5°	740.2	736.8	739.1	739.1	737.9
10°	734.5	731.0	733.3	734.5	734.5
12.5°	726.4	724.1	727.5	727.5	728.7
15°	717.1	714.8	719.5	721.8	721.8
17.5°	706.7	705.6	711.4	712.5	713.7
20°	695.2	694.0	701.0	701.0	703.3
22.5°	681.3	680.2	689.4	689.4	691.7
25°	666.3	665.2	675.6	677.9	679.0
27.5°	650.2	649.0	659.4	662.9	665.2
30°	631.7	631.7	643.2	647.9	651.3
32.5°	610.9	614.4	624.8	631.7	636.3
35°	591.3	595.9	607.4	615.5	621.3
37.5°	569.3	573.9	586.6	597.0	604.0
40°	546.2	552.0	567.0	578.6	589.0
42.5°	523.1	528.9	545.1	562.4	576.3
45°	496.6	504.7	522.0	546.2	562.4
47.5°	470.0	478.1	500.0	530.1	546.2
50°	442.3	451.5	478.1	512.7	530.1
52.5°	413.4	423.8	457.3	494.3	511.6
55°	383.4	396.1	434.2	473.5	492.0
57.5°	352.2	366.1	411.1	452.7	472.3
60°	319.9	337.2	386.9	430.7	451.5
62.5°	286.4	307.2	362.6	407.7	429.6
65°	251.7	276.0	337.2	384.6	406.5
67.5°	216.0	248.3	311.8	361.5	383.4
70°	180.2	218.3	285.2	336.1	358.0
72.5°	146.7	190.5	258.7	306.0	310.6
75°	114.3	162.8	231.0	235.6	227.5
77.5°	85.5	135.1	190.5	169.8	168.6
80°	61.2	108.6	122.4	125.9	127.0
82.5°	40.4	82.0	79.7	82.0	80.8
85°	24.3	40.4	41.6	40.4	38.1
87.5°	11.5	15.0	11.5	10.4	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)