

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: P263741

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263741
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-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2268.0 lumens
Efficiency: N/A
Efficacy: 87.1 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

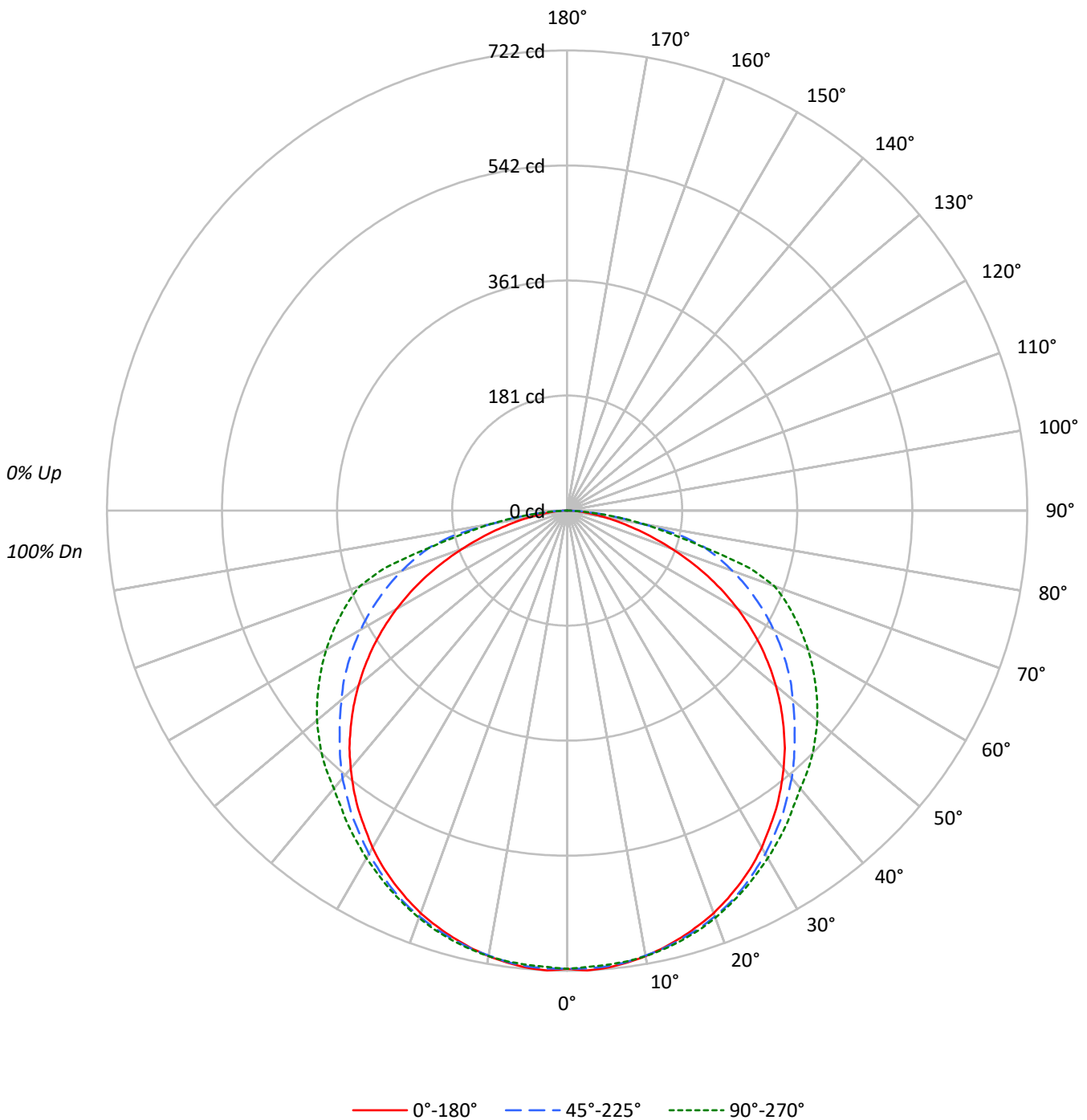
Input Watts (W): 26.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263741

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P263741

CATALOG NUMBER: 24CZ-LD5-35SE-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°	967	967	967
5°	973	970	967
10°	970	969	970
15°	966	969	972
20°	962	970	974
25°	956	970	975
30°	949	966	978
35°	939	964	987
40°	928	963	1000
45°	914	960	1035
50°	895	967	1073
55°	870	985	1116
60°	832	1006	1175
65°	775	1038	1251
70°	685	1085	1362
75°	574	1161	1143
80°	459	917	951
85°	361	621	568



TEST NUMBER: P263741

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.0
10°-20°	196.3	8.7
20°-30°	299.8	13.2
30°-40°	366.5	16.2
40°-50°	392.3	17.3
50°-60°	376.3	16.6
60°-70°	317.7	14.0
70°-80°	203.0	9.0
80°-90°	48.0	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°	564.2	24.9
0°-40°	930.7	41.0
0°-60°	1699.2	74.9
0°-90°	2268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	720	716	718	717	716	68
15°	693	691	696	698	698	196
25°	644	643	653	655	656	297
35°	572	576	587	595	601	357
45°	480	488	505	528	544	370
55°	371	383	420	458	476	331
65°	243	267	326	372	393	240
75°	110	157	223	228	220	119
85°	23	39	40	39	37	28
90°	0	0	0	0	0	



TEST NUMBER: P263741

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.0	719.0	719.0	719.0	719.0
2.5°	722.3	717.9	719.0	719.0	716.7
5°	720.1	715.6	717.9	716.7	715.6
7.5°	715.6	712.3	714.5	714.5	713.4
10°	710.0	706.7	708.9	710.0	710.0
12.5°	702.2	700.0	703.3	703.3	704.5
15°	693.3	691.1	695.5	697.8	697.8
17.5°	683.2	682.1	687.7	688.8	689.9
20°	672.1	671.0	677.7	677.7	679.9
22.5°	658.7	657.6	666.5	666.5	668.7
25°	644.2	643.1	653.1	655.3	656.5
27.5°	628.5	627.4	637.5	640.8	643.1
30°	610.7	610.7	621.8	626.3	629.7
32.5°	590.6	593.9	604.0	610.7	615.1
35°	571.6	576.1	587.2	595.1	600.6
37.5°	550.4	554.9	567.1	577.2	583.9
40°	528.1	533.6	548.2	559.3	569.4
42.5°	505.7	511.3	527.0	543.7	557.1
45°	480.1	487.9	504.6	528.1	543.7
47.5°	454.4	462.2	483.4	512.4	528.1
50°	427.6	436.5	462.2	495.7	512.4
52.5°	399.7	409.7	442.1	477.8	494.6
55°	370.7	382.9	419.8	457.7	475.6
57.5°	340.5	353.9	397.4	437.6	456.6
60°	309.2	326.0	374.0	416.4	436.5
62.5°	276.9	297.0	350.6	394.1	415.3
65°	243.4	266.8	326.0	371.8	393.0
67.5°	208.8	240.0	301.4	349.4	370.7
70°	174.2	211.0	275.8	324.9	346.1
72.5°	141.8	184.2	250.1	295.9	300.3
75°	110.5	157.4	223.3	227.7	219.9
77.5°	82.6	130.6	184.2	164.1	163.0
80°	59.2	104.9	118.3	121.7	122.8
82.5°	39.1	79.3	77.0	79.3	78.1
85°	23.4	39.1	40.2	39.1	36.8
87.5°	11.2	14.5	11.2	10.0	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)