

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: P263749

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263749  
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-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2584.0 lumens  
Efficiency: N/A  
Efficacy: 95.2 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

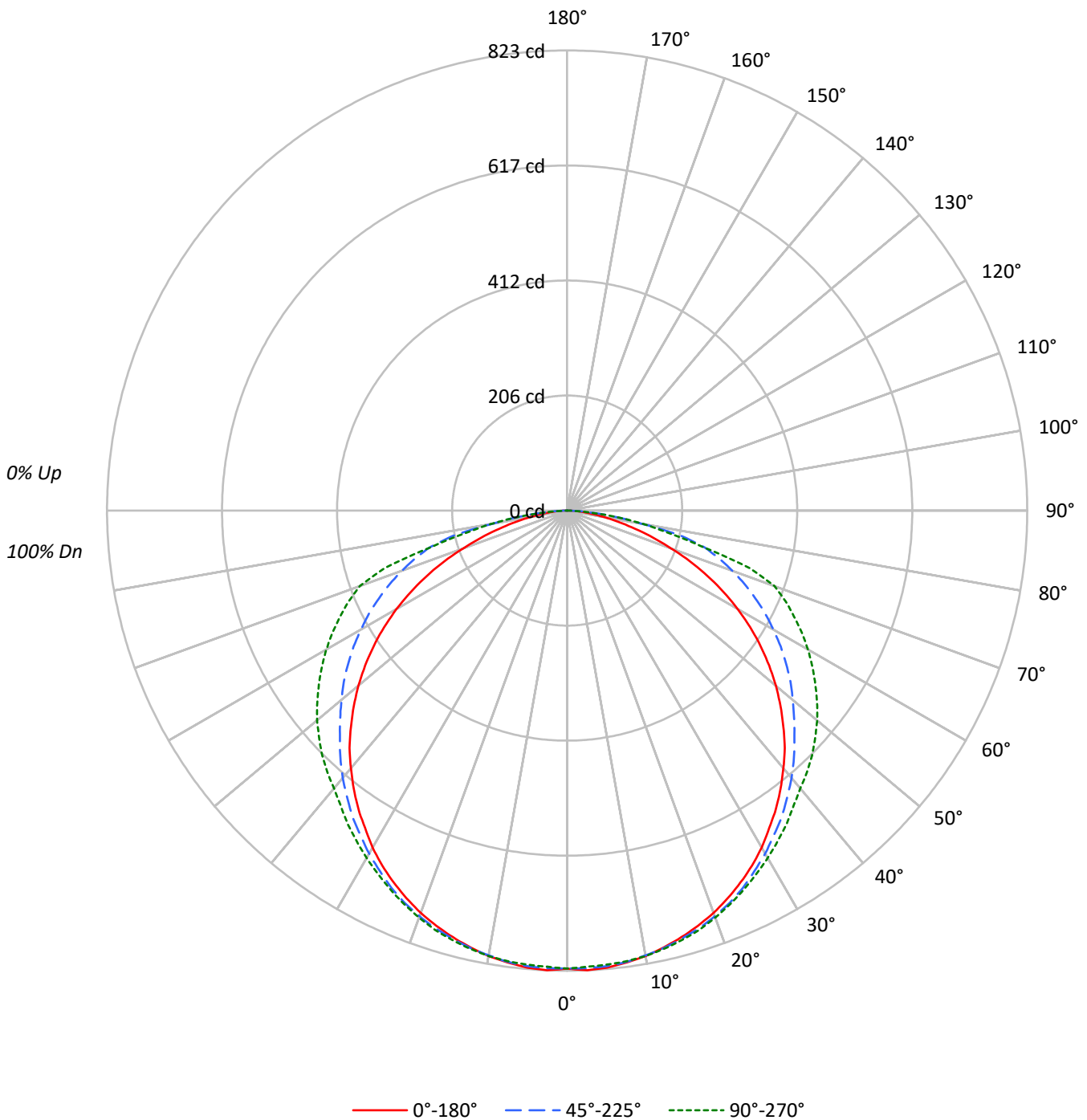
Input Watts (W): 27.156  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P263749

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P263749

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L82765-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°	1102	1102	1102
5°	1108	1105	1101
10°	1105	1104	1105
15°	1100	1104	1107
20°	1096	1106	1109
25°	1090	1105	1110
30°	1081	1101	1115
35°	1070	1099	1124
40°	1057	1097	1139
45°	1041	1094	1179
50°	1020	1102	1222
55°	991	1122	1271
60°	948	1147	1338
65°	883	1182	1425
70°	780	1236	1551
75°	655	1323	1303
80°	522	1044	1084
85°	412	707	648



TEST NUMBER: P263749

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.7	3.0
10°-20°	223.6	8.7
20°-30°	341.5	13.2
30°-40°	417.5	16.2
40°-50°	446.9	17.3
50°-60°	428.7	16.6
60°-70°	362.0	14.0
70°-80°	231.3	9.0
80°-90°	54.7	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°	642.8	24.9
0°-40°	1060.4	41.0
0°-60°	1936.0	74.9
0°-90°	2584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2584.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	820	815	818	817	815	78
15°	790	787	792	795	795	223
25°	734	733	744	747	748	338
35°	651	656	669	678	684	407
45°	547	556	575	602	620	422
55°	422	436	478	522	542	377
65°	277	304	371	424	448	273
75°	126	179	254	260	251	136
85°	27	44	46	44	42	32
90°	0	0	0	0	0	



TEST NUMBER: P263749

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	819.1	819.1	819.1	819.1	819.1
2.5°	823.0	817.9	819.1	819.1	816.6
5°	820.4	815.3	817.9	816.6	815.3
7.5°	815.3	811.5	814.1	814.1	812.8
10°	809.0	805.2	807.7	809.0	809.0
12.5°	800.1	797.5	801.3	801.3	802.6
15°	789.9	787.4	792.4	795.0	795.0
17.5°	778.4	777.2	783.5	784.8	786.1
20°	765.7	764.5	772.1	772.1	774.6
22.5°	750.5	749.2	759.4	759.4	761.9
25°	733.9	732.7	744.1	746.6	747.9
27.5°	716.1	714.8	726.3	730.1	732.7
30°	695.8	695.8	708.5	713.6	717.4
32.5°	672.9	676.7	688.1	695.8	700.9
35°	651.2	656.3	669.1	678.0	684.3
37.5°	627.1	632.2	646.2	657.6	665.2
40°	601.6	608.0	624.5	637.3	648.7
42.5°	576.2	582.6	600.4	619.5	634.7
45°	546.9	555.9	574.9	601.6	619.5
47.5°	517.7	526.6	550.8	583.8	601.6
50°	487.2	497.3	526.6	564.8	583.8
52.5°	455.4	466.8	503.7	544.4	563.5
55°	422.3	436.3	478.3	521.5	541.9
57.5°	388.0	403.2	452.8	498.6	520.2
60°	352.3	371.4	426.1	474.4	497.3
62.5°	315.4	338.3	399.4	449.0	473.2
65°	277.3	304.0	371.4	423.6	447.7
67.5°	237.9	273.5	343.4	398.1	422.3
70°	198.4	240.4	314.2	370.1	394.3
72.5°	161.5	209.9	284.9	337.1	342.2
75°	125.9	179.3	254.4	259.5	250.6
77.5°	94.1	148.8	209.9	187.0	185.7
80°	67.4	119.6	134.8	138.6	139.9
82.5°	44.5	90.3	87.8	90.3	89.0
85°	26.7	44.5	45.8	44.5	42.0
87.5°	12.7	16.5	12.7	11.4	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)