

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: P263238

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2429.0 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

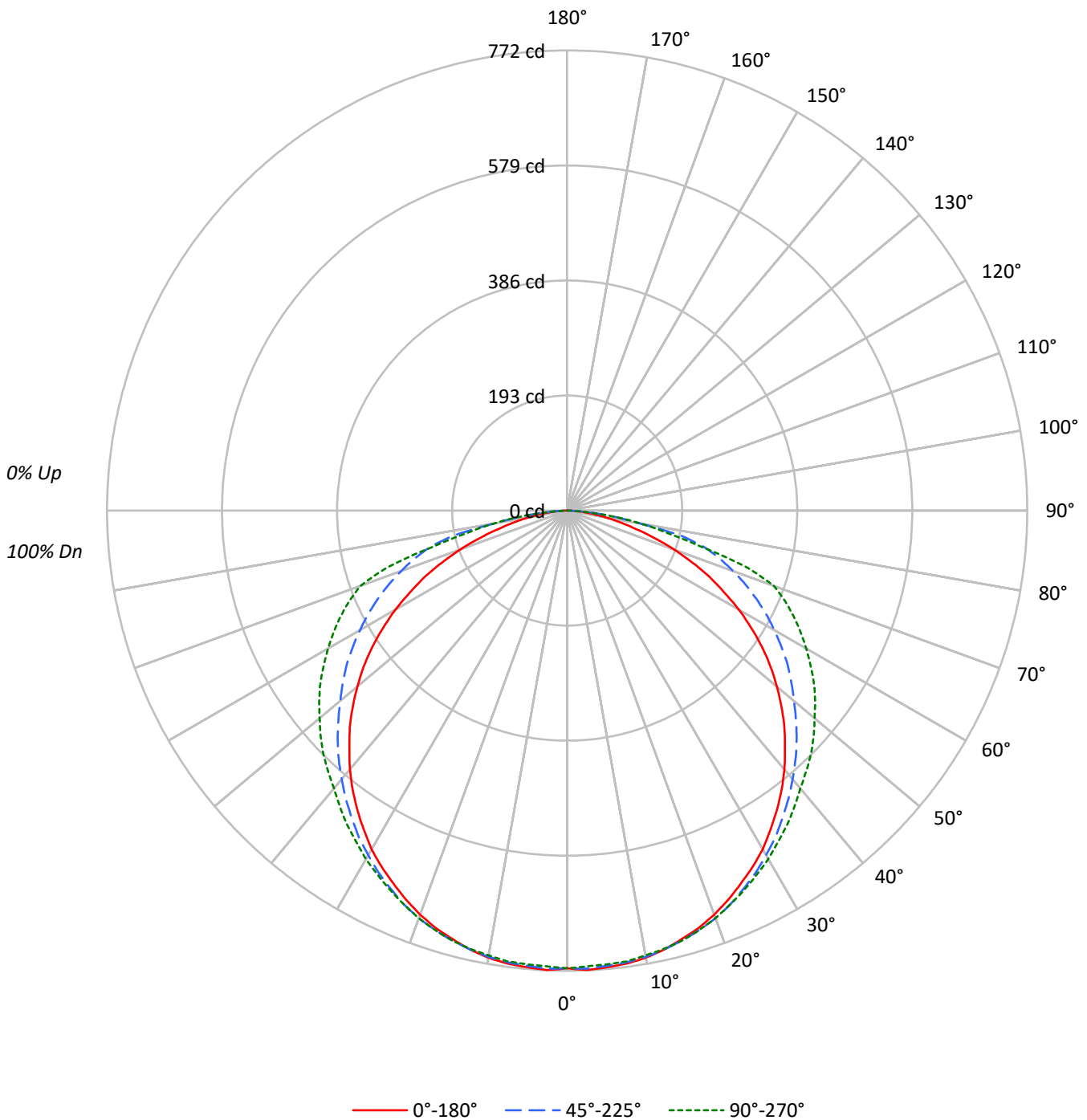
Input Watts (W): 24.831  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P263238

CATALOG NUMBER: 24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5700K

### Luminous Intensity Polar Plot





TEST NUMBER: P263238

CATALOG NUMBER: 24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5700K

**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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	1033	1033	1033
5°	1039	1035	1032
10°	1041	1039	1035
15°	1036	1040	1040
20°	1033	1042	1042
25°	1025	1039	1043
30°	1019	1037	1049
35°	1008	1034	1057
40°	996	1033	1069
45°	981	1036	1101
50°	961	1040	1135
55°	936	1060	1186
60°	895	1080	1246
65°	839	1115	1334
70°	750	1165	1451
75°	620	1246	1200
80°	505	962	972
85°	406	639	601



TEST NUMBER: P263238

CATALOG NUMBER: 24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	3.0
10°-20°	210.4	8.7
20°-30°	321.6	13.2
30°-40°	393.3	16.2
40°-50°	420.9	17.3
50°-60°	403.0	16.6
60°-70°	340.9	14.0
70°-80°	216.1	8.9
80°-90°	49.7	2.0
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°	605.0	24.9
0°-40°	998.3	41.1
0°-60°	1822.2	75.0
0°-90°	2429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2429.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	769	765	767	765	764	73
15°	744	743	746	746	746	210
25°	690	690	700	703	703	318
35°	614	617	630	639	644	384
45°	516	524	544	567	578	397
55°	399	412	452	489	506	356
65°	264	289	350	398	419	260
75°	119	168	240	238	231	130
85°	26	40	41	38	39	31
90°	0	0	0	0	0	



TEST NUMBER: P263238

CATALOG NUMBER: 24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	767.9	767.9	767.9	767.9	767.9
2.5°	771.6	767.9	769.1	767.9	765.3
5°	769.1	765.3	766.6	765.3	764.1
7.5°	766.6	762.8	764.1	762.8	762.8
10°	761.6	757.8	760.3	759.1	757.8
12.5°	754.1	751.5	754.1	752.8	752.8
15°	744.0	742.8	746.5	746.5	746.5
17.5°	734.0	732.7	737.7	737.7	737.7
20°	721.4	720.2	727.7	727.7	727.7
22.5°	706.4	705.1	715.2	715.2	715.2
25°	690.1	690.1	700.1	702.6	702.6
27.5°	673.8	673.8	685.0	688.8	688.8
30°	656.2	656.2	667.5	672.5	675.0
32.5°	634.9	637.4	649.9	656.2	658.7
35°	613.5	617.3	629.8	638.6	643.6
37.5°	590.9	594.7	609.8	619.8	626.1
40°	567.1	572.1	588.4	601.0	608.5
42.5°	540.8	548.3	567.1	583.4	593.5
45°	515.7	524.4	544.5	567.1	578.4
47.5°	488.1	498.1	520.7	549.5	560.8
50°	459.2	469.2	496.8	529.5	542.0
52.5°	430.3	441.6	474.3	509.4	524.4
55°	399.0	411.5	451.7	489.3	505.6
57.5°	366.4	381.4	426.6	466.7	484.3
60°	332.5	351.3	401.5	444.1	463.0
62.5°	297.4	319.9	376.4	421.6	441.6
65°	263.5	288.6	350.1	397.7	419.1
67.5°	227.1	258.5	323.7	375.1	395.2
70°	190.7	227.1	296.1	348.8	368.9
72.5°	154.3	198.2	268.5	316.2	316.2
75°	119.2	168.1	239.6	238.4	230.9
77.5°	90.3	140.5	197.0	168.1	169.4
80°	65.2	112.9	124.2	124.2	125.5
82.5°	43.9	86.6	80.3	79.0	81.6
85°	26.3	40.1	41.4	37.6	38.9
87.5°	12.5	13.8	11.3	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)