

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: P263456

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263456  
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-LD5-35SE-SQP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1845.0 lumens  
Efficiency: N/A  
Efficacy: 71.1 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

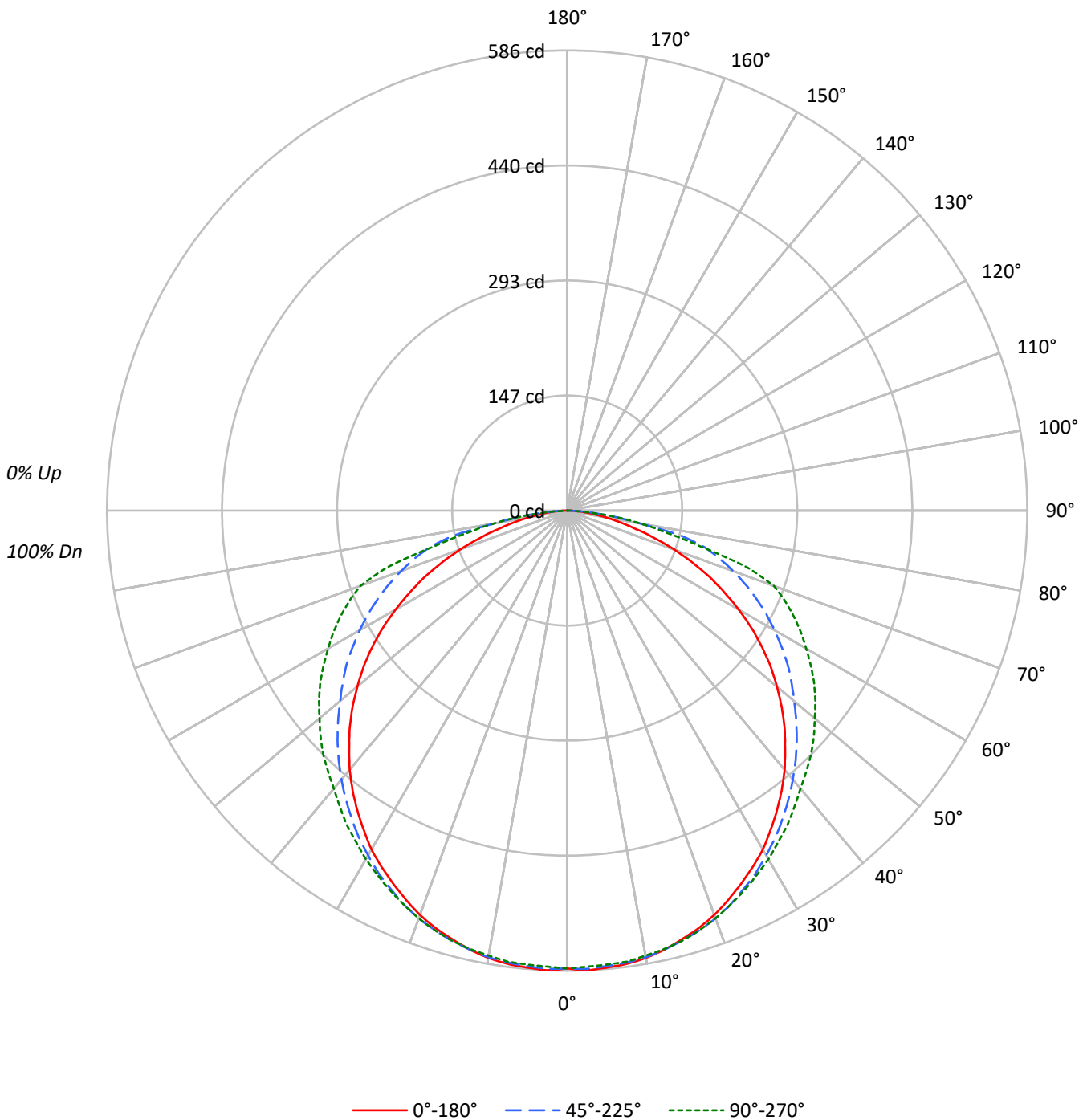
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	785	785	785
5°	789	786	784
10°	790	789	786
15°	787	790	790
20°	785	791	791
25°	778	790	792
30°	774	788	797
35°	765	786	803
40°	757	785	812
45°	745	787	836
50°	730	790	862
55°	711	805	901
60°	679	821	946
65°	637	847	1013
70°	570	885	1102
75°	470	946	912
80°	384	731	738
85°	309	485	455



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.4	3.0
10°-20°	159.8	8.7
20°-30°	244.3	13.2
30°-40°	298.8	16.2
40°-50°	319.7	17.3
50°-60°	306.1	16.6
60°-70°	259.0	14.0
70°-80°	164.2	8.9
80°-90°	37.8	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°	459.5	24.9
0°-40°	758.3	41.1
0°-60°	1384.1	75.0
0°-90°	1845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1845.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	584	581	582	581	580	56
15°	565	564	567	567	567	160
25°	524	524	532	534	534	242
35°	466	469	478	485	489	292
45°	392	398	414	431	439	302
55°	303	313	343	372	384	270
65°	200	219	266	302	318	197
75°	90	128	182	181	175	98
85°	20	30	31	29	30	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	583.2	583.2	583.2	583.2	583.2
2.5°	586.1	583.2	584.2	583.2	581.3
5°	584.2	581.3	582.3	581.3	580.4
7.5°	582.3	579.4	580.4	579.4	579.4
10°	578.5	575.6	577.5	576.6	575.6
12.5°	572.8	570.9	572.8	571.8	571.8
15°	565.1	564.2	567.0	567.0	567.0
17.5°	557.5	556.6	560.4	560.4	560.4
20°	548.0	547.0	552.7	552.7	552.7
22.5°	536.5	535.6	543.2	543.2	543.2
25°	524.2	524.2	531.8	533.7	533.7
27.5°	511.8	511.8	520.3	523.2	523.2
30°	498.4	498.4	507.0	510.8	512.7
32.5°	482.2	484.1	493.7	498.4	500.3
35°	466.0	468.9	478.4	485.1	488.9
37.5°	448.9	451.7	463.2	470.8	475.5
40°	430.8	434.6	447.0	456.5	462.2
42.5°	410.7	416.5	430.8	443.1	450.8
45°	391.7	398.4	413.6	430.8	439.3
47.5°	370.7	378.3	395.5	417.4	426.0
50°	348.8	356.4	377.4	402.2	411.7
52.5°	326.9	335.5	360.2	386.9	398.4
55°	303.1	312.6	343.1	371.7	384.1
57.5°	278.3	289.7	324.0	354.5	367.9
60°	252.5	266.8	305.0	337.4	351.7
62.5°	225.9	243.0	285.9	320.2	335.5
65°	200.1	219.2	265.9	302.1	318.3
67.5°	172.5	196.3	245.9	284.9	300.2
70°	144.9	172.5	224.9	264.9	280.2
72.5°	117.2	150.6	203.9	240.2	240.2
75°	90.5	127.7	182.0	181.1	175.4
77.5°	68.6	106.7	149.6	127.7	128.7
80°	49.6	85.8	94.3	94.3	95.3
82.5°	33.4	65.8	61.0	60.0	61.9
85°	20.0	30.5	31.4	28.6	29.5
87.5°	9.5	10.5	8.6	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)