

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: P263357

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263357  
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-LD5-30-SQP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1593.0 lumens  
Efficiency: N/A  
Efficacy: 81.2 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

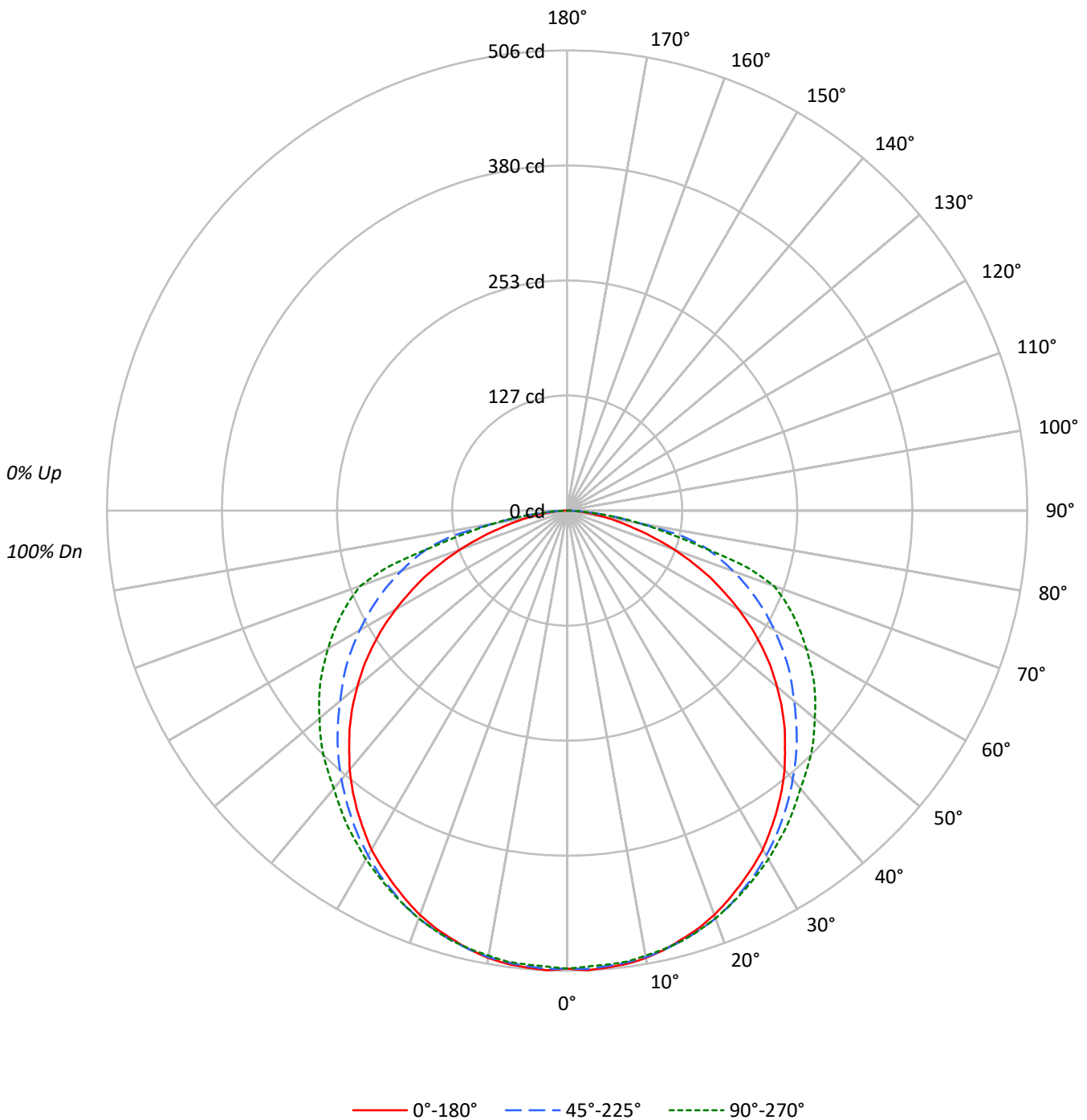
Input Watts (W): 19.623  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	678	678	678
5°	681	679	677
10°	682	681	679
15°	680	682	682
20°	677	683	683
25°	672	682	684
30°	669	680	688
35°	661	679	693
40°	653	678	701
45°	644	679	722
50°	630	682	744
55°	614	695	778
60°	587	709	817
65°	550	731	875
70°	492	764	952
75°	407	817	787
80°	332	631	638
85°	267	420	394



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.8	3.0
10°-20°	138.0	8.7
20°-30°	210.9	13.2
30°-40°	258.0	16.2
40°-50°	276.0	17.3
50°-60°	264.3	16.6
60°-70°	223.6	14.0
70°-80°	141.7	8.9
80°-90°	32.6	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°	396.8	24.9
0°-40°	654.7	41.1
0°-60°	1195.0	75.0
0°-90°	1593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1593.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	504	502	503	502	501	48
15°	488	487	490	490	490	138
25°	453	453	459	461	461	209
35°	402	405	413	419	422	252
45°	338	344	357	372	379	261
55°	262	270	296	321	332	233
65°	173	189	230	261	275	170
75°	78	110	157	156	151	85
85°	17	26	27	25	26	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	503.6	503.6	503.6	503.6	503.6
2.5°	506.0	503.6	504.4	503.6	501.9
5°	504.4	501.9	502.8	501.9	501.1
7.5°	502.8	500.3	501.1	500.3	500.3
10°	499.5	497.0	498.6	497.8	497.0
12.5°	494.5	492.9	494.5	493.7	493.7
15°	487.9	487.1	489.6	489.6	489.6
17.5°	481.4	480.5	483.8	483.8	483.8
20°	473.1	472.3	477.2	477.2	477.2
22.5°	463.3	462.4	469.0	469.0	469.0
25°	452.6	452.6	459.1	460.8	460.8
27.5°	441.9	441.9	449.3	451.7	451.7
30°	430.3	430.3	437.8	441.0	442.7
32.5°	416.4	418.0	426.2	430.3	432.0
35°	402.4	404.8	413.1	418.8	422.1
37.5°	387.6	390.0	399.9	406.5	410.6
40°	371.9	375.2	385.9	394.1	399.1
42.5°	354.6	359.6	371.9	382.6	389.2
45°	338.2	343.9	357.1	371.9	379.3
47.5°	320.1	326.7	341.5	360.4	367.8
50°	301.2	307.7	325.8	347.2	355.5
52.5°	282.2	289.6	311.0	334.1	343.9
55°	261.7	269.9	296.2	320.9	331.6
57.5°	240.3	250.1	279.8	306.1	317.6
60°	218.1	230.4	263.3	291.3	303.6
62.5°	195.0	209.8	246.9	276.5	289.6
65°	172.8	189.3	229.6	260.8	274.8
67.5°	148.9	169.5	212.3	246.0	259.2
70°	125.1	148.9	194.2	228.7	241.9
72.5°	101.2	130.0	176.1	207.4	207.4
75°	78.2	110.3	157.2	156.3	151.4
77.5°	59.2	92.2	129.2	110.3	111.1
80°	42.8	74.1	81.5	81.5	82.3
82.5°	28.8	56.8	52.7	51.8	53.5
85°	17.3	26.3	27.2	24.7	25.5
87.5°	8.2	9.1	7.4	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)