

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: P263452

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263452  
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-LD5-30SE-SQP-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1856.0 lumens  
Efficiency: N/A  
Efficacy: 83.5 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

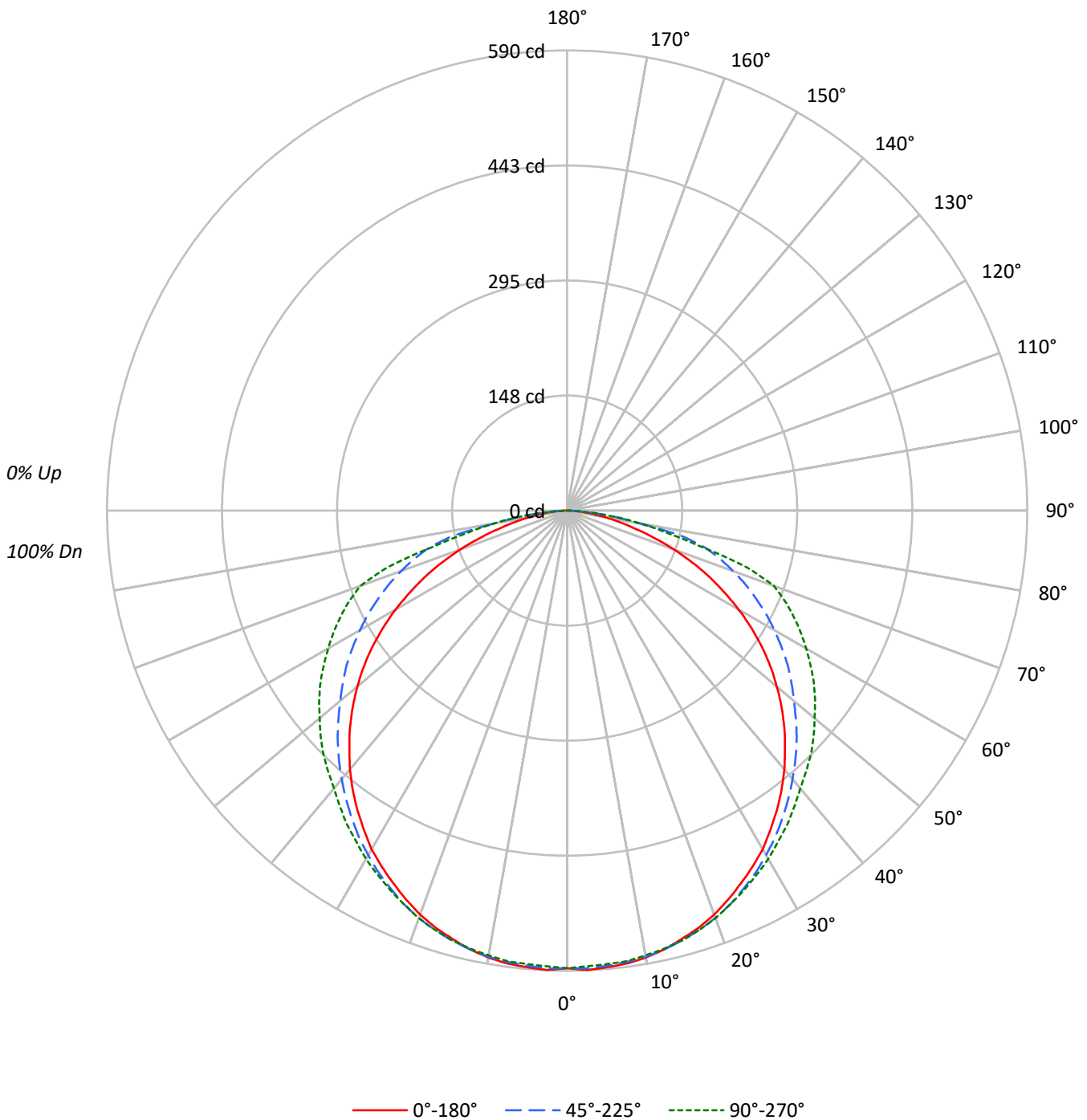
Input Watts (W): 22.227  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	789	789	789
5°	794	791	788
10°	795	794	791
15°	792	795	795
20°	789	796	796
25°	783	794	797
30°	779	792	801
35°	770	791	808
40°	761	790	817
45°	750	792	841
50°	735	795	867
55°	715	810	906
60°	684	826	952
65°	641	852	1019
70°	573	890	1109
75°	474	952	917
80°	387	735	743
85°	310	488	459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	3.0
10°-20°	160.8	8.7
20°-30°	245.7	13.2
30°-40°	300.6	16.2
40°-50°	321.6	17.3
50°-60°	308.0	16.6
60°-70°	260.5	14.0
70°-80°	165.1	8.9
80°-90°	38.0	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°	462.3	24.9
0°-40°	762.8	41.1
0°-60°	1392.4	75.0
0°-90°	1856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	587	587	587	587	587	
5°	588	585	586	585	584	56
15°	568	568	570	570	570	161
25°	527	527	535	537	537	243
35°	469	472	481	488	492	293
45°	394	401	416	433	442	304
55°	305	314	345	374	386	272
65°	201	220	268	304	320	198
75°	91	128	183	182	176	99
85°	20	31	32	29	30	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	586.7	586.7	586.7	586.7	586.7
2.5°	589.6	586.7	587.7	586.7	584.8
5°	587.7	584.8	585.8	584.8	583.8
7.5°	585.8	582.9	583.8	582.9	582.9
10°	581.9	579.0	581.0	580.0	579.0
12.5°	576.2	574.3	576.2	575.2	575.2
15°	568.5	567.5	570.4	570.4	570.4
17.5°	560.8	559.9	563.7	563.7	563.7
20°	551.2	550.3	556.0	556.0	556.0
22.5°	539.7	538.8	546.5	546.5	546.5
25°	527.3	527.3	534.9	536.9	536.9
27.5°	514.8	514.8	523.4	526.3	526.3
30°	501.4	501.4	510.0	513.9	515.8
32.5°	485.1	487.0	496.6	501.4	503.3
35°	468.8	471.7	481.3	488.0	491.8
37.5°	451.5	454.4	465.9	473.6	478.4
40°	433.3	437.2	449.6	459.2	465.0
42.5°	413.2	418.9	433.3	445.8	453.5
45°	394.0	400.7	416.1	433.3	442.0
47.5°	372.9	380.6	397.9	419.9	428.5
50°	350.9	358.5	379.6	404.6	414.2
52.5°	328.8	337.5	362.4	389.2	400.7
55°	304.9	314.4	345.1	373.9	386.4
57.5°	279.9	291.4	326.0	356.6	370.1
60°	254.1	268.4	306.8	339.4	353.8
62.5°	227.2	244.5	287.6	322.1	337.5
65°	201.3	220.5	267.5	303.9	320.2
67.5°	173.5	197.5	247.3	286.6	302.0
70°	145.7	173.5	226.3	266.5	281.9
72.5°	117.9	151.5	205.2	241.6	241.6
75°	91.1	128.5	183.1	182.2	176.4
77.5°	69.0	107.4	150.5	128.5	129.4
80°	49.9	86.3	94.9	94.9	95.9
82.5°	33.6	66.1	61.4	60.4	62.3
85°	20.1	30.7	31.6	28.8	29.7
87.5°	9.6	10.5	8.6	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)