

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: P263872

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263872  
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-LD5-30SE-RDP-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1949.0 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

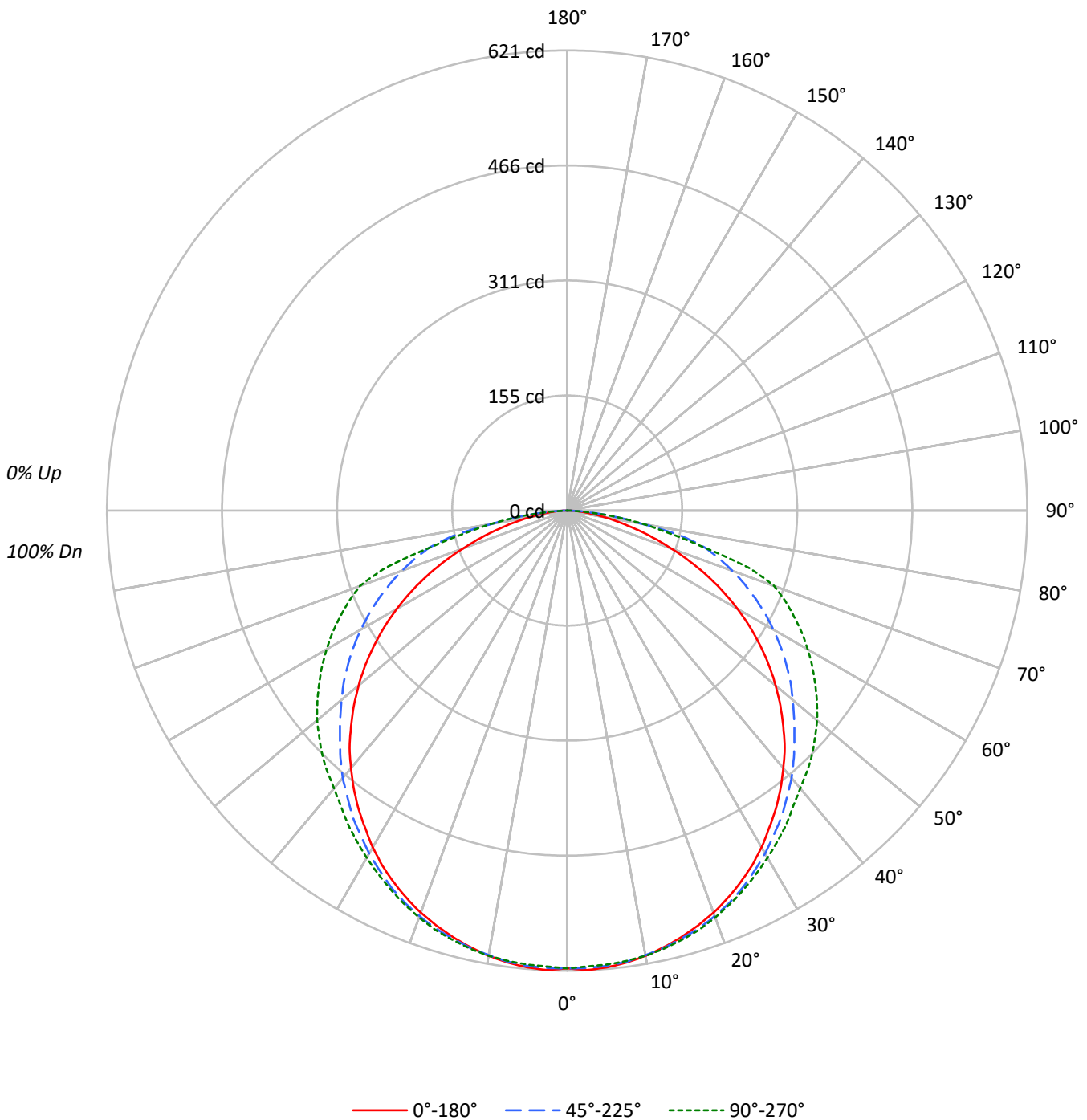
Input Watts (W): 22.227  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	831	831	831
5°	836	833	831
10°	834	832	834
15°	830	833	835
20°	827	834	837
25°	822	833	837
30°	815	830	841
35°	807	829	848
40°	797	827	859
45°	785	825	889
50°	769	831	922
55°	747	846	959
60°	715	865	1009
65°	666	892	1075
70°	589	932	1170
75°	494	998	983
80°	394	788	817
85°	310	533	489



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.6	3.0
10°-20°	168.7	8.7
20°-30°	257.6	13.2
30°-40°	314.9	16.2
40°-50°	337.1	17.3
50°-60°	323.3	16.6
60°-70°	273.0	14.0
70°-80°	174.5	9.0
80°-90°	41.3	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°	484.9	24.9
0°-40°	799.8	41.0
0°-60°	1460.2	74.9
0°-90°	1949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	619	615	617	616	615	59
15°	596	594	598	600	600	168
25°	554	553	561	563	564	255
35°	491	495	505	511	516	307
45°	412	419	434	454	467	318
55°	318	329	361	393	409	284
65°	209	229	280	320	338	206
75°	95	135	192	196	189	102
85°	20	34	34	34	32	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	617.8	617.8	617.8	617.8	617.8
2.5°	620.7	616.9	617.8	617.8	615.9
5°	618.8	615.0	616.9	615.9	615.0
7.5°	615.0	612.1	614.0	614.0	613.1
10°	610.2	607.3	609.2	610.2	610.2
12.5°	603.5	601.5	604.4	604.4	605.4
15°	595.8	593.9	597.7	599.6	599.6
17.5°	587.1	586.2	591.0	591.9	592.9
20°	577.6	576.6	582.4	582.4	584.3
22.5°	566.0	565.1	572.8	572.8	574.7
25°	553.6	552.6	561.2	563.2	564.1
27.5°	540.1	539.2	547.8	550.7	552.6
30°	524.8	524.8	534.4	538.2	541.1
32.5°	507.5	510.4	519.0	524.8	528.6
35°	491.2	495.0	504.6	511.4	516.2
37.5°	473.0	476.8	487.4	496.0	501.8
40°	453.8	458.6	471.1	480.7	489.3
42.5°	434.6	439.4	452.8	467.2	478.7
45°	412.5	419.3	433.6	453.8	467.2
47.5°	390.5	397.2	415.4	440.4	453.8
50°	367.4	375.1	397.2	426.0	440.4
52.5°	343.5	352.1	379.9	410.6	425.0
55°	318.5	329.1	360.7	393.4	408.7
57.5°	292.6	304.1	341.5	376.1	392.4
60°	265.8	280.1	321.4	357.9	375.1
62.5°	237.9	255.2	301.2	338.7	356.9
65°	209.1	229.3	280.1	319.5	337.7
67.5°	179.4	206.3	259.0	300.3	318.5
70°	149.7	181.3	237.0	279.2	297.4
72.5°	121.8	158.3	214.9	254.2	258.1
75°	95.0	135.3	191.9	195.7	189.0
77.5°	71.0	112.2	158.3	141.0	140.1
80°	50.8	90.2	101.7	104.6	105.5
82.5°	33.6	68.1	66.2	68.1	67.2
85°	20.1	33.6	34.5	33.6	31.7
87.5°	9.6	12.5	9.6	8.6	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)