

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: P263784

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263784  
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-LD5-30-RDP-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2011.0 lumens  
Efficiency: N/A  
Efficacy: 99.6 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

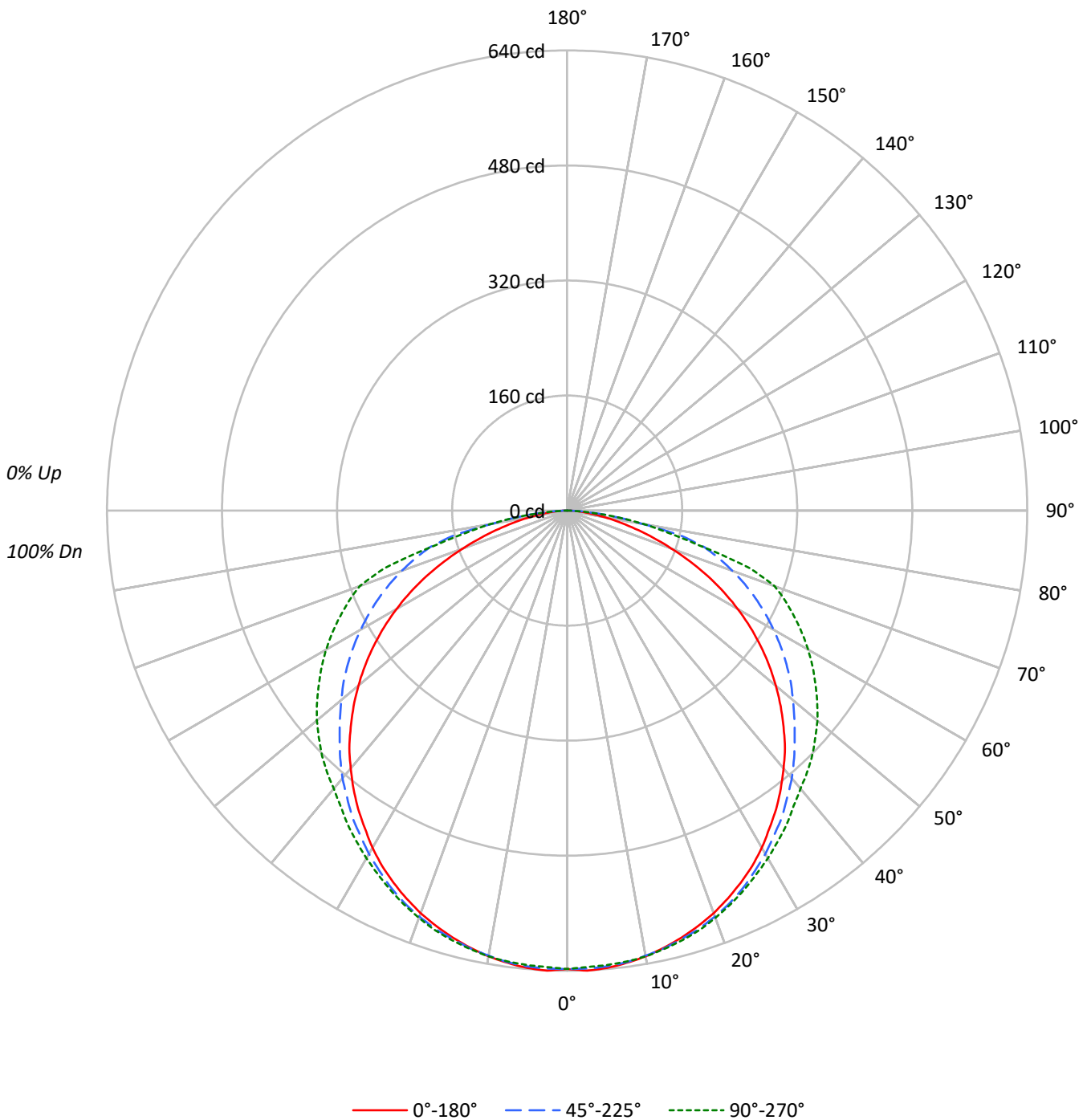
Input Watts (W): 20.181  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	858	858	858
5°	862	860	857
10°	860	859	860
15°	856	859	862
20°	853	860	863
25°	848	860	864
30°	841	857	867
35°	832	855	875
40°	822	854	887
45°	810	851	917
50°	794	858	951
55°	771	873	989
60°	738	892	1042
65°	687	920	1109
70°	607	962	1207
75°	509	1029	1014
80°	407	813	844
85°	321	550	505



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	3.0
10°-20°	174.0	8.7
20°-30°	265.8	13.2
30°-40°	325.0	16.2
40°-50°	347.8	17.3
50°-60°	333.6	16.6
60°-70°	281.7	14.0
70°-80°	180.0	9.0
80°-90°	42.6	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°	500.3	24.9
0°-40°	825.2	41.0
0°-60°	1506.7	74.9
0°-90°	2011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2011.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	638	634	636	636	634	61
15°	615	613	617	619	619	174
25°	571	570	579	581	582	263
35°	507	511	521	528	533	317
45°	426	433	447	468	482	328
55°	329	340	372	406	422	293
65°	216	237	289	330	348	213
75°	98	140	198	202	195	106
85°	21	35	36	35	33	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	637.5	637.5	637.5	637.5	637.5
2.5°	640.5	636.5	637.5	637.5	635.5
5°	638.5	634.5	636.5	635.5	634.5
7.5°	634.5	631.6	633.5	633.5	632.6
10°	629.6	626.6	628.6	629.6	629.6
12.5°	622.7	620.7	623.6	623.6	624.6
15°	614.7	612.8	616.7	618.7	618.7
17.5°	605.8	604.8	609.8	610.8	611.8
20°	595.9	594.9	600.9	600.9	602.9
22.5°	584.0	583.1	591.0	591.0	593.0
25°	571.2	570.2	579.1	581.1	582.1
27.5°	557.3	556.3	565.2	568.2	570.2
30°	541.5	541.5	551.4	555.3	558.3
32.5°	523.7	526.6	535.5	541.5	545.4
35°	506.8	510.8	520.7	527.6	532.6
37.5°	488.0	492.0	502.9	511.8	517.7
40°	468.2	473.2	486.0	495.9	504.9
42.5°	448.4	453.4	467.2	482.1	494.0
45°	425.7	432.6	447.4	468.2	482.1
47.5°	402.9	409.8	428.6	454.4	468.2
50°	379.1	387.1	409.8	439.5	454.4
52.5°	354.4	363.3	392.0	423.7	438.5
55°	328.7	339.5	372.2	405.9	421.7
57.5°	301.9	313.8	352.4	388.0	404.9
60°	274.2	289.1	331.6	369.2	387.1
62.5°	245.5	263.3	310.8	349.4	368.2
65°	215.8	236.6	289.1	329.6	348.4
67.5°	185.1	212.8	267.3	309.8	328.7
70°	154.4	187.1	244.5	288.1	306.9
72.5°	125.7	163.3	221.7	262.3	266.3
75°	98.0	139.6	198.0	201.9	195.0
77.5°	73.3	115.8	163.3	145.5	144.5
80°	52.5	93.1	104.9	107.9	108.9
82.5°	34.6	70.3	68.3	70.3	69.3
85°	20.8	34.6	35.6	34.6	32.7
87.5°	9.9	12.9	9.9	8.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)