

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: P263874

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263874  
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-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1987.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 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

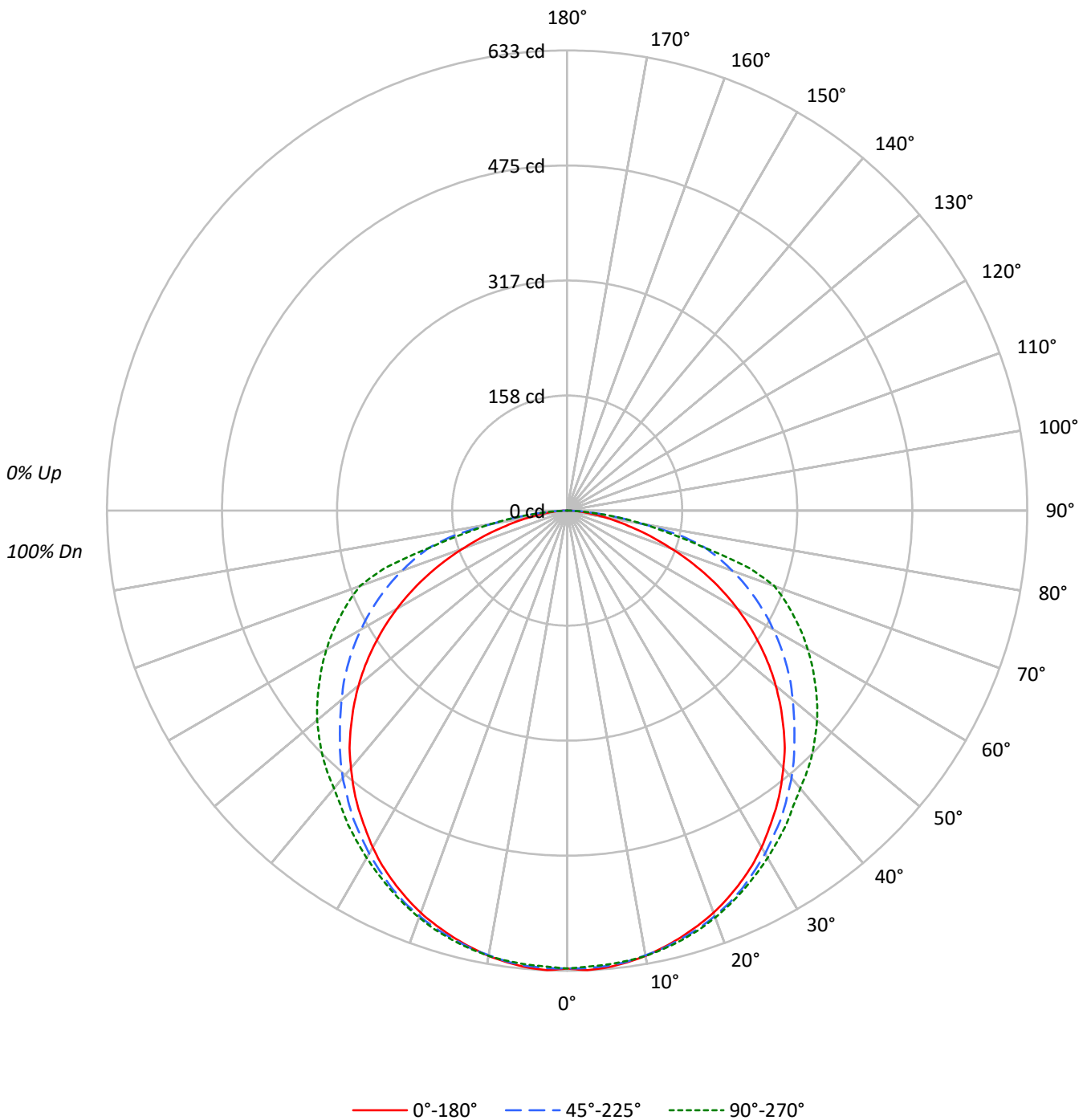
Input Watts (W): 22.413  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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°	848	848	848
5°	852	849	847
10°	850	849	850
15°	846	849	852
20°	843	850	853
25°	838	849	854
30°	831	846	857
35°	823	845	864
40°	813	843	876
45°	800	841	906
50°	784	848	940
55°	762	863	977
60°	729	882	1029
65°	679	909	1096
70°	600	950	1193
75°	503	1017	1002
80°	401	804	834
85°	316	543	499



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.7	3.0
10°-20°	171.9	8.7
20°-30°	262.6	13.2
30°-40°	321.1	16.2
40°-50°	343.7	17.3
50°-60°	329.6	16.6
60°-70°	278.3	14.0
70°-80°	177.9	9.0
80°-90°	42.1	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°	494.3	24.9
0°-40°	815.4	41.0
0°-60°	1488.7	74.9
0°-90°	1987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	631	627	629	628	627	60
15°	607	605	609	611	611	171
25°	564	563	572	574	575	260
35°	501	505	514	521	526	313
45°	421	427	442	463	476	324
55°	325	336	368	401	417	290
65°	213	234	286	326	344	210
75°	97	138	196	200	193	104
85°	20	34	35	34	32	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	629.9	629.9	629.9	629.9	629.9
2.5°	632.8	628.9	629.9	629.9	627.9
5°	630.9	627.0	628.9	627.9	627.0
7.5°	627.0	624.0	626.0	626.0	625.0
10°	622.1	619.1	621.1	622.1	622.1
12.5°	615.2	613.3	616.2	616.2	617.2
15°	607.4	605.4	609.4	611.3	611.3
17.5°	598.6	597.6	602.5	603.5	604.5
20°	588.8	587.8	593.7	593.7	595.7
22.5°	577.1	576.1	583.9	583.9	585.9
25°	564.4	563.4	572.2	574.1	575.1
27.5°	550.7	549.7	558.5	561.4	563.4
30°	535.0	535.0	544.8	548.7	551.6
32.5°	517.4	520.3	529.2	535.0	538.9
35°	500.8	504.7	514.5	521.3	526.2
37.5°	482.2	486.1	496.9	505.7	511.5
40°	462.6	467.5	480.2	490.0	498.8
42.5°	443.1	448.0	461.7	476.3	488.1
45°	420.6	427.4	442.1	462.6	476.3
47.5°	398.1	404.9	423.5	448.9	462.6
50°	374.6	382.4	404.9	434.3	448.9
52.5°	350.2	359.0	387.3	418.6	433.3
55°	324.7	335.5	367.8	401.0	416.7
57.5°	298.3	310.1	348.2	383.4	400.0
60°	270.9	285.6	327.7	364.8	382.4
62.5°	242.6	260.2	307.1	345.3	363.9
65°	213.2	233.8	285.6	325.7	344.3
67.5°	182.9	210.3	264.1	306.1	324.7
70°	152.6	184.9	241.6	284.6	303.2
72.5°	124.2	161.4	219.1	259.2	263.1
75°	96.8	137.9	195.6	199.5	192.7
77.5°	72.4	114.4	161.4	143.8	142.8
80°	51.8	91.9	103.7	106.6	107.6
82.5°	34.2	69.4	67.5	69.4	68.5
85°	20.5	34.2	35.2	34.2	32.3
87.5°	9.8	12.7	9.8	8.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)