

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: P263542

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263542  
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-L83050-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1992.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 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

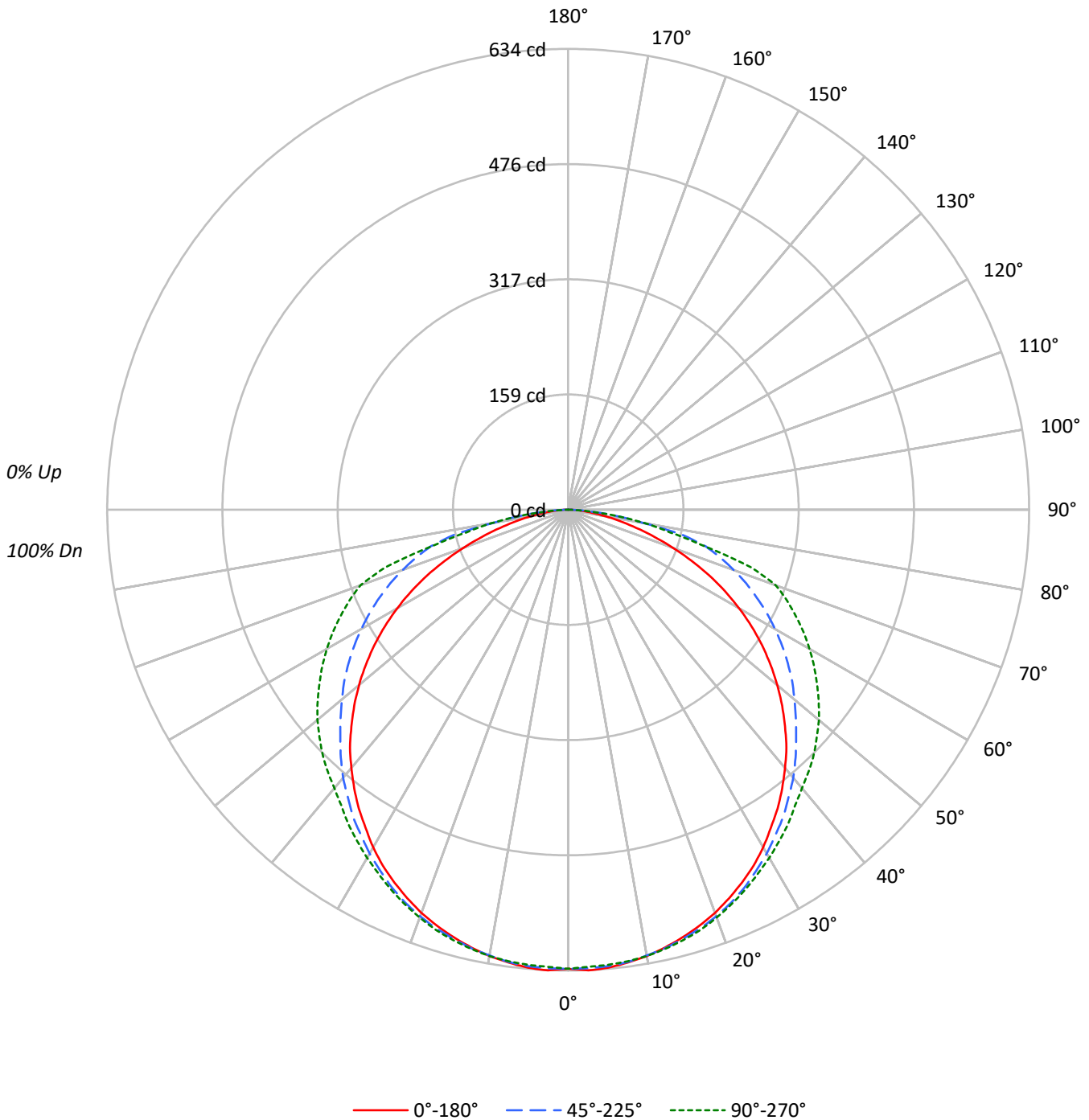
Input Watts (W): 21.718476  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	850	850	850
5°	854	852	849
10°	852	851	852
15°	848	851	854
20°	845	852	855
25°	840	852	856
30°	833	849	859
35°	825	847	866
40°	815	846	878
45°	802	843	909
50°	786	850	942
55°	764	865	980
60°	731	884	1032
65°	681	911	1099
70°	602	953	1196
75°	505	1019	1004
80°	403	805	836
85°	318	545	500



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.9	3.0
10°-20°	172.4	8.7
20°-30°	263.3	13.2
30°-40°	321.9	16.2
40°-50°	344.5	17.3
50°-60°	330.5	16.6
60°-70°	279.0	14.0
70°-80°	178.3	9.0
80°-90°	42.2	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°	495.6	24.9
0°-40°	817.4	41.0
0°-60°	1492.5	74.9
0°-90°	1992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	632	628	630	630	628	60
15°	609	607	611	613	613	172
25°	566	565	574	576	577	261
35°	502	506	516	523	528	314
45°	422	428	443	464	478	325
55°	326	336	369	402	418	291
65°	214	234	286	326	345	211
75°	97	138	196	200	193	105
85°	21	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°	631.5	631.5	631.5	631.5	631.5
2.5°	634.4	630.5	631.5	631.5	629.5
5°	632.5	628.5	630.5	629.5	628.5
7.5°	628.5	625.6	627.6	627.6	626.6
10°	623.6	620.7	622.7	623.6	623.6
12.5°	616.8	614.8	617.8	617.8	618.7
15°	608.9	607.0	610.9	612.8	612.8
17.5°	600.1	599.1	604.0	605.0	606.0
20°	590.3	589.3	595.2	595.2	597.2
22.5°	578.5	577.5	585.4	585.4	587.4
25°	565.8	564.8	573.6	575.6	576.6
27.5°	552.1	551.1	559.9	562.8	564.8
30°	536.4	536.4	546.2	550.1	553.0
32.5°	518.7	521.7	530.5	536.4	540.3
35°	502.0	506.0	515.8	522.6	527.5
37.5°	483.4	487.3	498.1	506.9	512.8
40°	463.8	468.7	481.5	491.3	500.1
42.5°	444.2	449.1	462.8	477.5	489.3
45°	421.6	428.5	443.2	463.8	477.5
47.5°	399.1	406.0	424.6	450.1	463.8
50°	375.6	383.4	406.0	435.4	450.1
52.5°	351.0	359.9	388.3	419.7	434.4
55°	325.5	336.3	368.7	402.0	417.7
57.5°	299.1	310.8	349.1	384.4	401.0
60°	271.6	286.3	328.5	365.7	383.4
62.5°	243.2	260.8	307.9	346.1	364.8
65°	213.8	234.4	286.3	326.5	345.2
67.5°	183.4	210.8	264.8	306.9	325.5
70°	153.0	185.3	242.2	285.3	304.0
72.5°	124.5	161.8	219.6	259.8	263.8
75°	97.1	138.3	196.1	200.0	193.2
77.5°	72.6	114.7	161.8	144.1	143.2
80°	52.0	92.2	103.9	106.9	107.9
82.5°	34.3	69.6	67.7	69.6	68.6
85°	20.6	34.3	35.3	34.3	32.4
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)