

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: P263780

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263780  
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-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1884.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 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

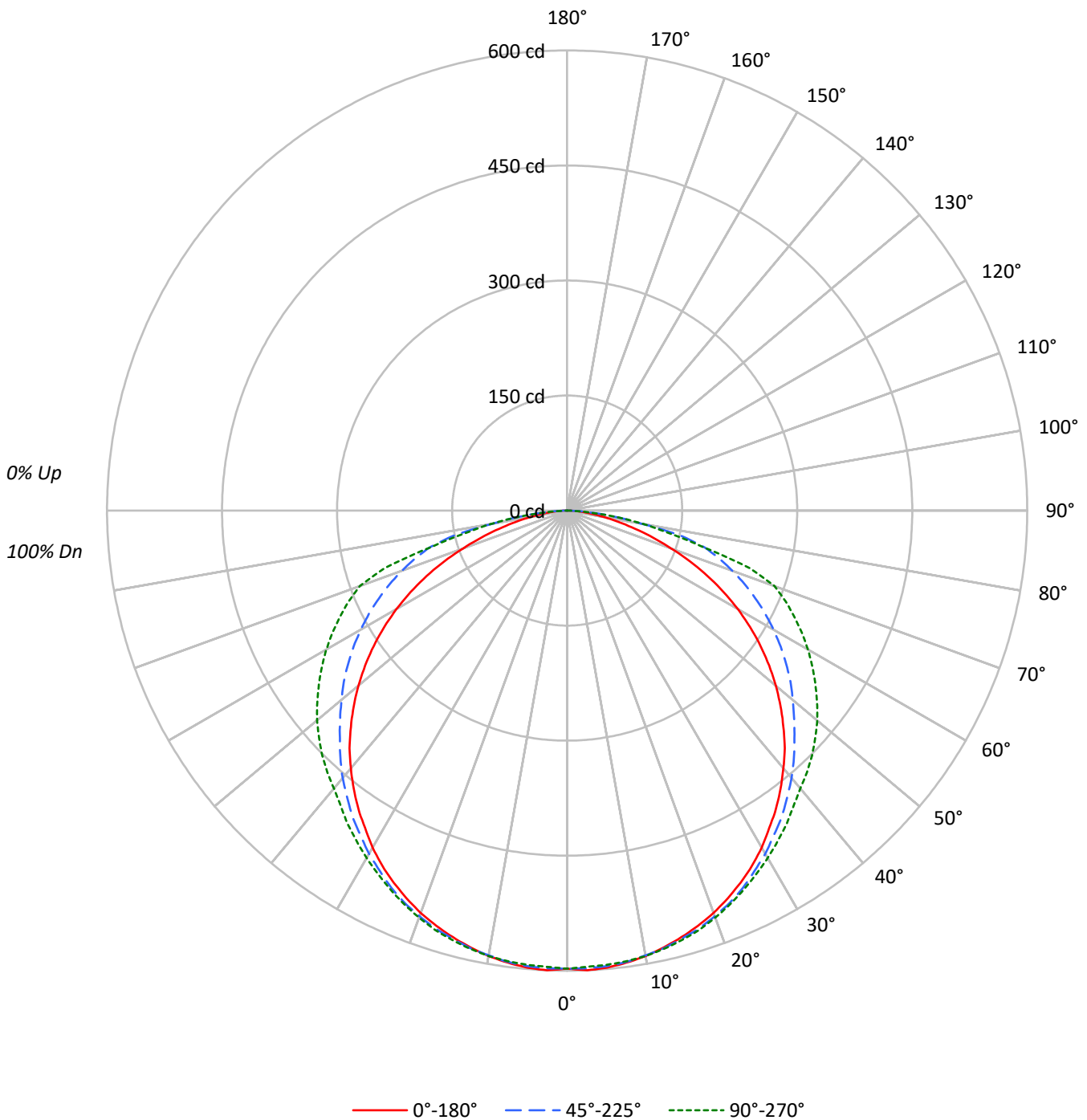
Input Watts (W): 19.809  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	61	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°	804	804	804
5°	808	805	803
10°	806	805	806
15°	802	805	807
20°	799	806	809
25°	794	805	810
30°	788	803	813
35°	780	801	819
40°	771	800	831
45°	759	798	859
50°	744	804	891
55°	722	818	927
60°	691	836	976
65°	644	862	1039
70°	569	901	1131
75°	477	964	950
80°	381	762	790
85°	301	516	472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.6	3.0
10°-20°	163.0	8.7
20°-30°	249.0	13.2
30°-40°	304.4	16.2
40°-50°	325.9	17.3
50°-60°	312.6	16.6
60°-70°	263.9	14.0
70°-80°	168.7	9.0
80°-90°	39.9	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°	468.7	24.9
0°-40°	773.1	41.0
0°-60°	1411.5	74.9
0°-90°	1884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	597	597	597	597	597	
5°	598	594	596	595	594	57
15°	576	574	578	580	580	163
25°	535	534	542	544	545	247
35°	475	478	488	494	499	297
45°	399	405	419	439	452	308
55°	308	318	349	380	395	275
65°	202	222	271	309	326	199
75°	92	131	186	189	183	99
85°	20	32	33	32	31	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	597.2	597.2	597.2	597.2	597.2
2.5°	600.0	596.3	597.2	597.2	595.4
5°	598.2	594.5	596.3	595.4	594.5
7.5°	594.5	591.7	593.5	593.5	592.6
10°	589.8	587.0	588.9	589.8	589.8
12.5°	583.3	581.5	584.3	584.3	585.2
15°	575.9	574.1	577.8	579.6	579.6
17.5°	567.6	566.6	571.3	572.2	573.1
20°	558.3	557.4	562.9	562.9	564.8
22.5°	547.2	546.2	553.7	553.7	555.5
25°	535.1	534.2	542.5	544.4	545.3
27.5°	522.1	521.2	529.5	532.3	534.2
30°	507.3	507.3	516.6	520.3	523.1
32.5°	490.6	493.4	501.7	507.3	511.0
35°	474.8	478.5	487.8	494.3	498.9
37.5°	457.2	460.9	471.1	479.5	485.0
40°	438.7	443.3	455.4	464.6	473.0
42.5°	420.1	424.7	437.7	451.6	462.8
45°	398.8	405.3	419.2	438.7	451.6
47.5°	377.5	383.9	401.6	425.7	438.7
50°	355.2	362.6	383.9	411.8	425.7
52.5°	332.0	340.4	367.2	396.9	410.8
55°	307.9	318.1	348.7	380.2	395.1
57.5°	282.9	294.0	330.2	363.5	379.3
60°	256.9	270.8	310.7	345.9	362.6
62.5°	230.0	246.7	291.2	327.4	345.0
65°	202.2	221.6	270.8	308.8	326.4
67.5°	173.4	199.4	250.4	290.3	307.9
70°	144.7	175.3	229.1	269.9	287.5
72.5°	117.8	153.0	207.7	245.8	249.5
75°	91.8	130.8	185.5	189.2	182.7
77.5°	68.6	108.5	153.0	136.3	135.4
80°	49.2	87.2	98.3	101.1	102.0
82.5°	32.5	65.8	64.0	65.8	64.9
85°	19.5	32.5	33.4	32.5	30.6
87.5°	9.3	12.1	9.3	8.3	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)