

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: P263782

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263782  
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-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1972.0 lumens  
Efficiency: N/A  
Efficacy: 98.2 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

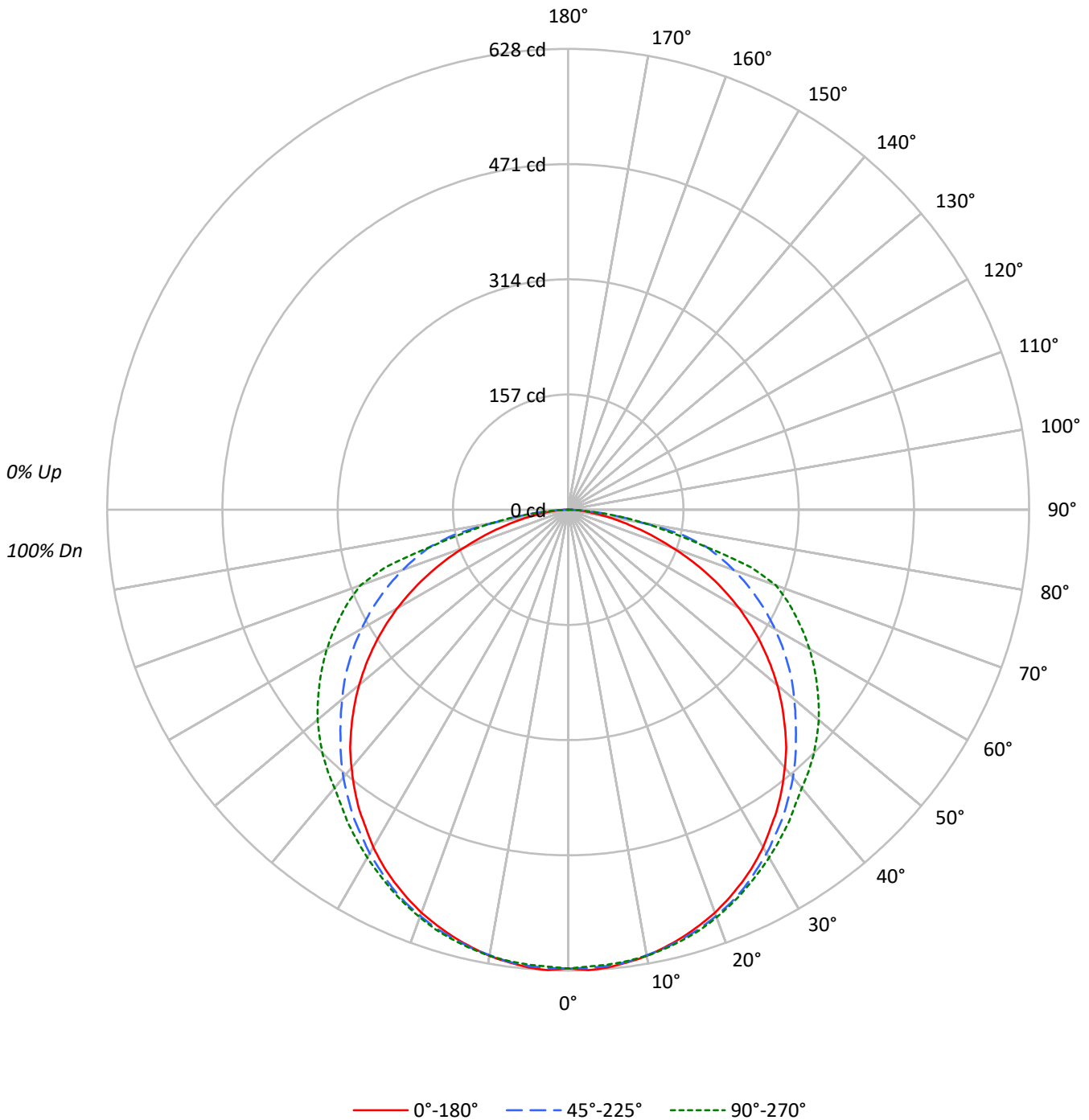
Input Watts (W): 20.088  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	841	841	841
5°	846	843	840
10°	844	842	844
15°	840	842	845
20°	837	844	847
25°	832	843	847
30°	825	840	851
35°	816	839	858
40°	806	837	870
45°	794	835	899
50°	778	841	933
55°	756	856	970
60°	724	875	1021
65°	674	902	1088
70°	596	943	1184
75°	500	1009	994
80°	398	797	828
85°	315	539	494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	3.0
10°-20°	170.6	8.7
20°-30°	260.6	13.2
30°-40°	318.7	16.2
40°-50°	341.1	17.3
50°-60°	327.2	16.6
60°-70°	276.2	14.0
70°-80°	176.5	9.0
80°-90°	41.7	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°	490.6	24.9
0°-40°	809.2	41.0
0°-60°	1477.5	74.9
0°-90°	1972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1972.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	626	622	624	623	622	59
15°	603	601	605	607	607	170
25°	560	559	568	570	571	258
35°	497	501	511	517	522	311
45°	417	424	439	459	473	322
55°	322	333	365	398	414	288
65°	212	232	283	323	342	209
75°	96	137	194	198	191	103
85°	20	34	35	34	32	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	625.1	625.1	625.1	625.1	625.1
2.5°	628.1	624.2	625.1	625.1	623.2
5°	626.1	622.2	624.2	623.2	622.2
7.5°	622.2	619.3	621.3	621.3	620.3
10°	617.4	614.5	616.4	617.4	617.4
12.5°	610.6	608.6	611.6	611.6	612.5
15°	602.8	600.9	604.8	606.7	606.7
17.5°	594.1	593.1	598.0	598.9	599.9
20°	584.4	583.4	589.2	589.2	591.2
22.5°	572.7	571.8	579.5	579.5	581.5
25°	560.1	559.1	567.9	569.8	570.8
27.5°	546.5	545.5	554.3	557.2	559.1
30°	531.0	531.0	540.7	544.6	547.5
32.5°	513.5	516.4	525.2	531.0	534.9
35°	497.0	500.9	510.6	517.4	522.2
37.5°	478.6	482.4	493.1	501.9	507.7
40°	459.1	464.0	476.6	486.3	495.1
42.5°	439.7	444.6	458.2	472.7	484.4
45°	417.4	424.2	438.8	459.1	472.7
47.5°	395.1	401.9	420.3	445.6	459.1
50°	371.8	379.5	401.9	431.0	445.6
52.5°	347.5	356.3	384.4	415.5	430.0
55°	322.3	333.0	365.0	398.0	413.5
57.5°	296.1	307.7	345.6	380.5	397.0
60°	268.9	283.4	325.2	362.1	379.5
62.5°	240.7	258.2	304.8	342.7	361.1
65°	211.6	232.0	283.4	323.2	341.7
67.5°	181.5	208.7	262.1	303.8	322.3
70°	151.4	183.5	239.8	282.5	300.9
72.5°	123.3	160.2	217.4	257.2	261.1
75°	96.1	136.9	194.1	198.0	191.2
77.5°	71.8	113.6	160.2	142.7	141.7
80°	51.4	91.2	102.9	105.8	106.8
82.5°	34.0	68.9	67.0	68.9	68.0
85°	20.4	34.0	34.9	34.0	32.0
87.5°	9.7	12.6	9.7	8.7	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)