

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: P263644

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263644
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-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2084.0 lumens
Efficiency: N/A
Efficacy: 105.7 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

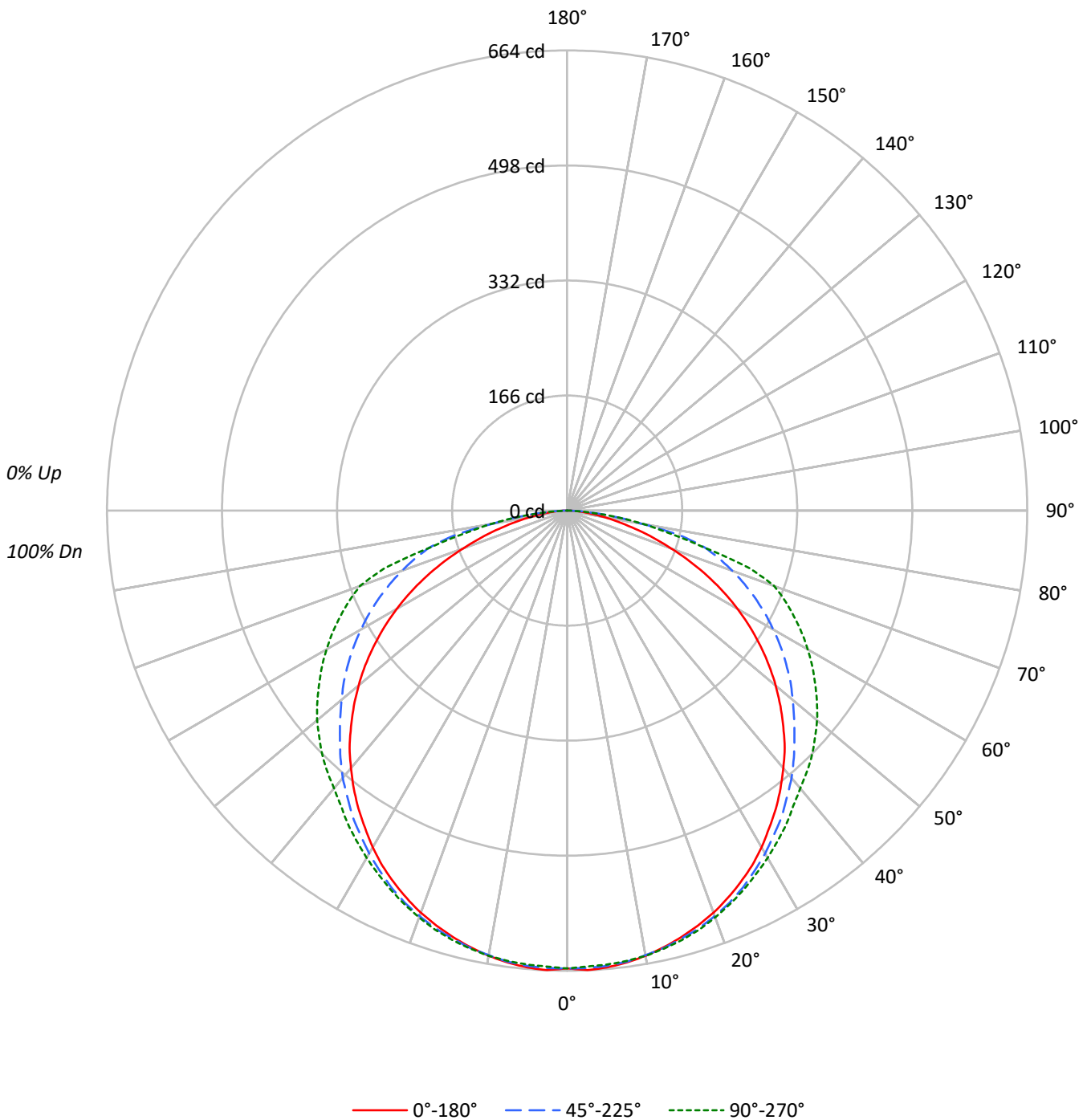
Input Watts (W): 19.716
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	889	889	889
5°	894	891	888
10°	891	890	891
15°	887	890	893
20°	884	892	894
25°	879	891	896
30°	872	888	899
35°	863	886	907
40°	852	885	919
45°	839	882	951
50°	822	889	986
55°	799	905	1025
60°	765	925	1079
65°	712	954	1150
70°	629	997	1251
75°	528	1067	1051
80°	422	842	874
85°	332	570	523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.0
10°-20°	180.3	8.7
20°-30°	275.4	13.2
30°-40°	336.7	16.2
40°-50°	360.5	17.3
50°-60°	345.7	16.6
60°-70°	291.9	14.0
70°-80°	186.6	9.0
80°-90°	44.1	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°	518.4	24.9
0°-40°	855.2	41.0
0°-60°	1561.4	74.9
0°-90°	2084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	662	658	660	659	658	63
15°	637	635	639	641	641	180
25°	592	591	600	602	603	273
35°	525	529	540	547	552	328
45°	441	448	464	485	500	340
55°	341	352	386	421	437	304
65°	224	245	300	342	361	221
75°	102	145	205	209	202	109
85°	22	36	37	36	34	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.6	660.6	660.6	660.6	660.6
2.5°	663.7	659.6	660.6	660.6	658.6
5°	661.7	657.6	659.6	658.6	657.6
7.5°	657.6	654.5	656.5	656.5	655.5
10°	652.4	649.4	651.4	652.4	652.4
12.5°	645.3	643.2	646.3	646.3	647.3
15°	637.1	635.0	639.1	641.2	641.2
17.5°	627.8	626.8	631.9	632.9	634.0
20°	617.6	616.5	622.7	622.7	624.7
22.5°	605.2	604.2	612.4	612.4	614.5
25°	591.9	590.9	600.1	602.2	603.2
27.5°	577.6	576.5	585.8	588.8	590.9
30°	561.1	561.1	571.4	575.5	578.6
32.5°	542.7	545.8	555.0	561.1	565.2
35°	525.2	529.3	539.6	546.8	551.9
37.5°	505.7	509.8	521.1	530.4	536.5
40°	485.2	490.4	503.7	513.9	523.2
42.5°	464.7	469.8	484.2	499.6	511.9
45°	441.1	448.3	463.7	485.2	499.6
47.5°	417.5	424.7	444.2	470.9	485.2
50°	392.9	401.1	424.7	455.5	470.9
52.5°	367.3	376.5	406.2	439.1	454.5
55°	340.6	351.9	385.7	420.6	437.0
57.5°	312.9	325.2	365.2	402.1	419.6
60°	284.2	299.5	343.7	382.6	401.1
62.5°	254.4	272.9	322.1	362.1	381.6
65°	223.6	245.2	299.5	341.6	361.1
67.5°	191.8	220.6	277.0	321.1	340.6
70°	160.0	193.9	253.4	298.5	318.0
72.5°	130.3	169.3	229.8	271.8	276.0
75°	101.6	144.6	205.2	209.3	202.1
77.5°	75.9	120.0	169.3	150.8	149.8
80°	54.4	96.4	108.7	111.8	112.8
82.5°	35.9	72.8	70.8	72.8	71.8
85°	21.5	35.9	36.9	35.9	33.9
87.5°	10.3	13.3	10.3	9.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)