

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: P263781

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263781
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1933.0 lumens
Efficiency: N/A
Efficacy: 96.7 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

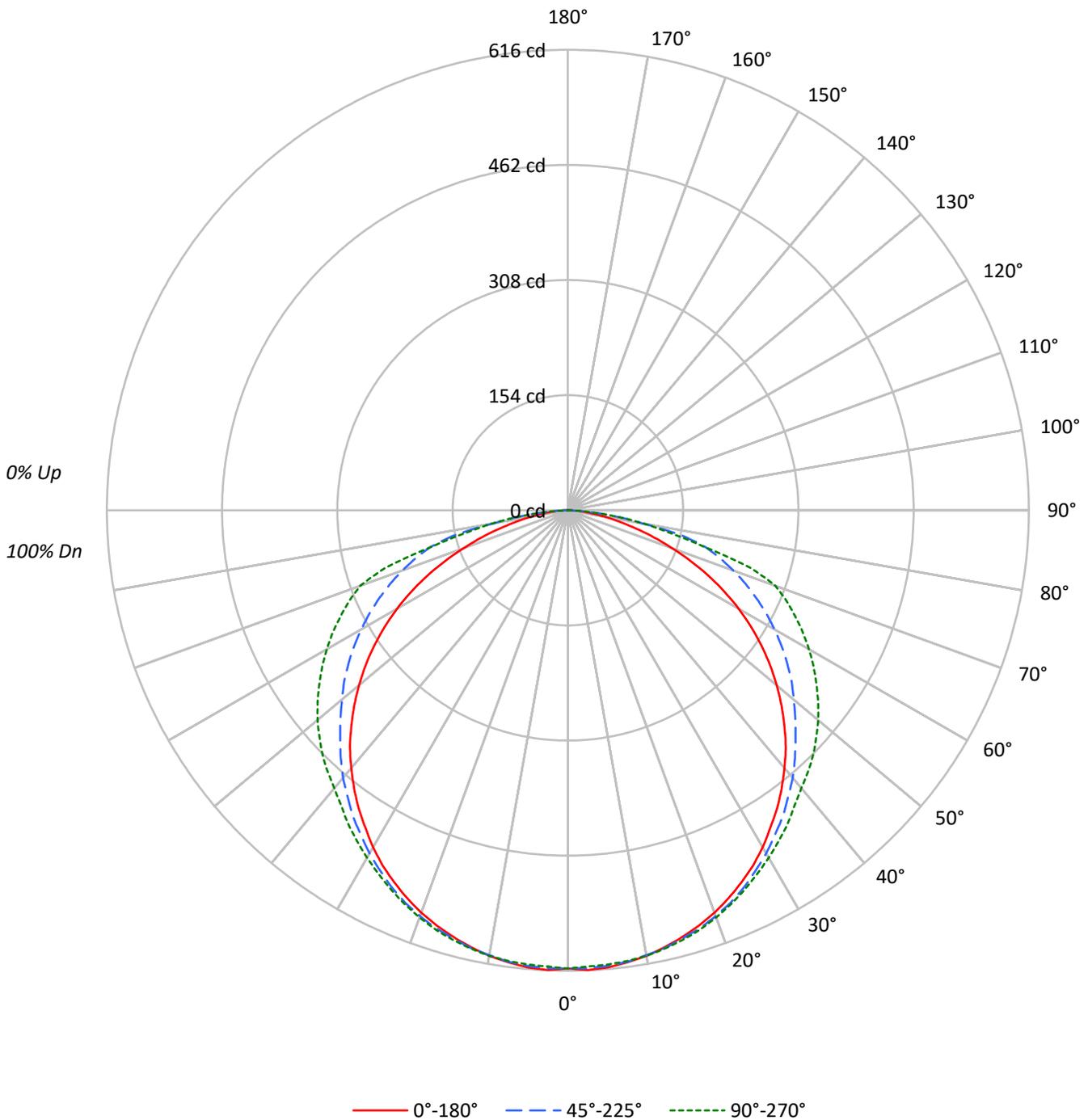
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	825	825	825
5°	829	826	824
10°	827	825	827
15°	823	826	828
20°	820	827	830
25°	815	826	831
30°	809	823	834
35°	800	822	841
40°	791	821	852
45°	779	818	882
50°	763	825	914
55°	741	839	951
60°	709	858	1001
65°	660	884	1066
70°	584	924	1161
75°	490	989	974
80°	391	782	811
85°	309	530	485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	3.0
10°-20°	167.3	8.7
20°-30°	255.5	13.2
30°-40°	312.4	16.2
40°-50°	334.3	17.3
50°-60°	320.7	16.6
60°-70°	270.8	14.0
70°-80°	173.0	9.0
80°-90°	40.9	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°	480.9	24.9
0°-40°	793.2	41.0
0°-60°	1448.2	74.9
0°-90°	1933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	613	613	613	613	613	
5°	614	610	612	611	610	58
15°	591	589	593	595	595	167
25°	549	548	557	558	560	253
35°	487	491	500	507	512	305
45°	409	416	430	450	463	316
55°	316	326	358	390	405	282
65°	207	227	278	317	335	205
75°	94	134	190	194	187	101
85°	20	33	34	33	31	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	612.8	612.8	612.8	612.8	612.8
2.5°	615.6	611.8	612.8	612.8	610.9
5°	613.7	609.9	611.8	610.9	609.9
7.5°	609.9	607.1	609.0	609.0	608.0
10°	605.2	602.3	604.2	605.2	605.2
12.5°	598.5	596.6	599.5	599.5	600.4
15°	590.9	589.0	592.8	594.7	594.7
17.5°	582.3	581.4	586.1	587.1	588.0
20°	572.8	571.9	577.6	577.6	579.5
22.5°	561.4	560.4	568.1	568.1	570.0
25°	549.0	548.1	556.6	558.5	559.5
27.5°	535.7	534.8	543.3	546.2	548.1
30°	520.5	520.5	530.0	533.8	536.7
32.5°	503.4	506.2	514.8	520.5	524.3
35°	487.2	491.0	500.5	507.2	511.9
37.5°	469.1	472.9	483.4	491.9	497.6
40°	450.1	454.8	467.2	476.7	485.3
42.5°	431.0	435.8	449.1	463.4	474.8
45°	409.2	415.8	430.1	450.1	463.4
47.5°	387.3	393.9	412.0	436.7	450.1
50°	364.4	372.0	393.9	422.5	436.7
52.5°	340.6	349.2	376.8	407.2	421.5
55°	315.9	326.4	357.8	390.1	405.3
57.5°	290.2	301.6	338.7	373.0	389.2
60°	263.6	277.8	318.8	354.9	372.0
62.5°	236.0	253.1	298.8	335.9	354.0
65°	207.4	227.4	277.8	316.9	334.9
67.5°	177.9	204.6	256.9	297.8	315.9
70°	148.4	179.8	235.0	276.9	295.0
72.5°	120.8	157.0	213.1	252.2	256.0
75°	94.2	134.2	190.3	194.1	187.4
77.5°	70.4	111.3	157.0	139.9	138.9
80°	50.4	89.4	100.9	103.7	104.7
82.5°	33.3	67.6	65.7	67.6	66.6
85°	20.0	33.3	34.3	33.3	31.4
87.5°	9.5	12.4	9.5	8.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)