

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: P263777

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263777
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1672.0 lumens
Efficiency: N/A
Efficacy: 85.2 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

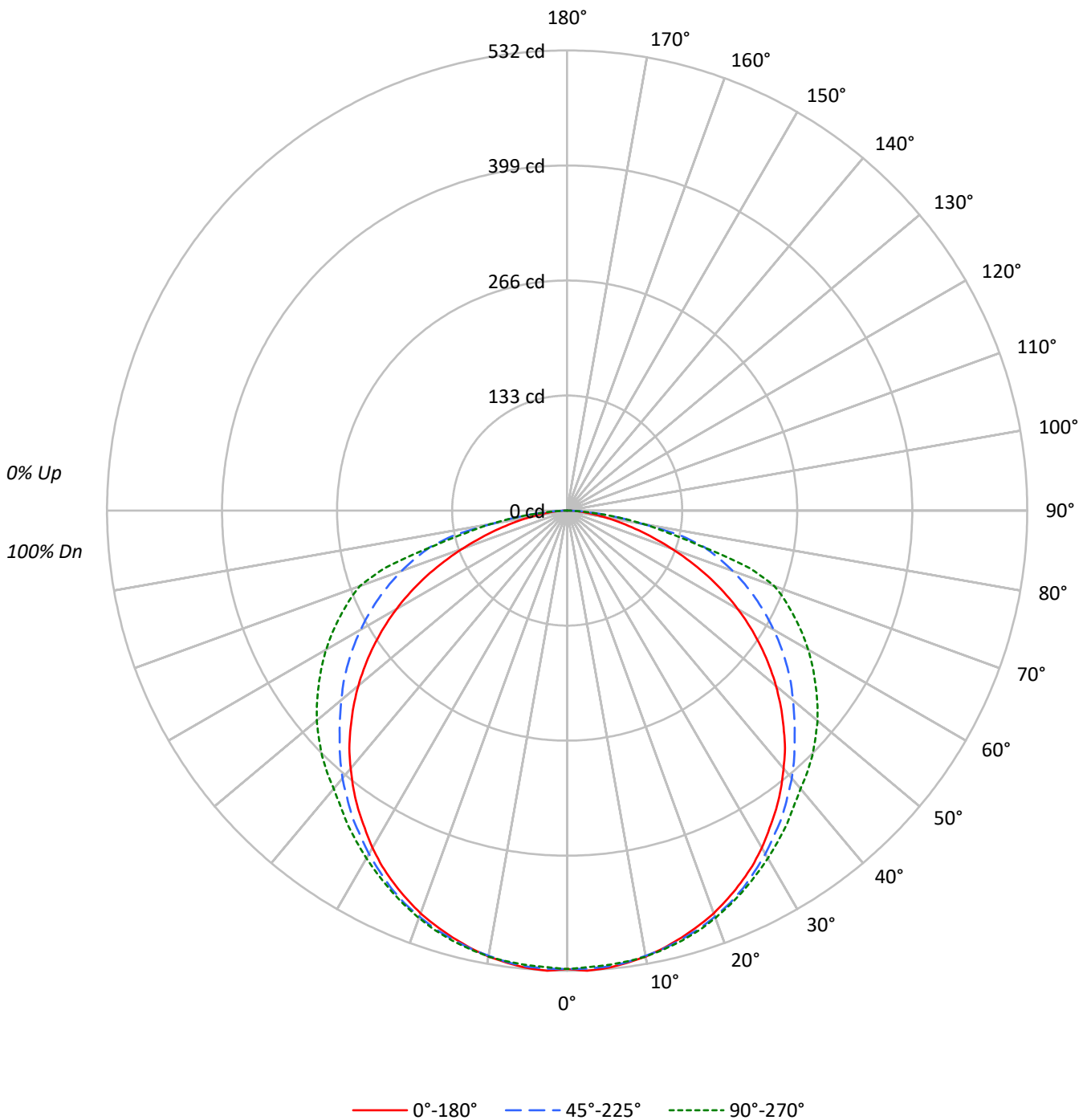
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	713	713	713
5°	717	715	713
10°	715	714	715
15°	712	714	717
20°	709	715	718
25°	705	715	718
30°	699	712	721
35°	692	711	727
40°	684	710	737
45°	673	708	763
50°	660	713	791
55°	641	726	822
60°	614	742	866
65°	571	765	922
70°	505	800	1004
75°	424	856	843
80°	338	676	701
85°	267	457	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	3.0
10°-20°	144.7	8.7
20°-30°	221.0	13.2
30°-40°	270.2	16.2
40°-50°	289.2	17.3
50°-60°	277.4	16.6
60°-70°	234.2	14.0
70°-80°	149.7	9.0
80°-90°	35.4	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°	415.9	24.9
0°-40°	686.1	41.0
0°-60°	1252.7	74.9
0°-90°	1672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	531	528	529	528	528	50
15°	511	510	513	514	514	144
25°	475	474	482	483	484	219
35°	421	425	433	439	443	263
45°	354	360	372	389	401	273
55°	273	282	310	337	351	244
65°	179	197	240	274	290	177
75°	82	116	165	168	162	88
85°	17	29	30	29	27	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	530.0	530.0	530.0	530.0	530.0
2.5°	532.5	529.2	530.0	530.0	528.4
5°	530.9	527.6	529.2	528.4	527.6
7.5°	527.6	525.1	526.7	526.7	525.9
10°	523.5	521.0	522.6	523.5	523.5
12.5°	517.7	516.0	518.5	518.5	519.3
15°	511.1	509.5	512.8	514.4	514.4
17.5°	503.7	502.9	507.0	507.8	508.6
20°	495.5	494.6	499.6	499.6	501.2
22.5°	485.6	484.8	491.4	491.4	493.0
25°	474.9	474.1	481.5	483.1	483.9
27.5°	463.4	462.5	470.0	472.4	474.1
30°	450.2	450.2	458.4	461.7	464.2
32.5°	435.4	437.9	445.3	450.2	453.5
35°	421.4	424.7	432.9	438.7	442.8
37.5°	405.8	409.1	418.1	425.5	430.5
40°	389.3	393.4	404.1	412.3	419.8
42.5°	372.8	377.0	388.5	400.8	410.7
45°	353.9	359.7	372.0	389.3	400.8
47.5°	335.0	340.7	356.4	377.8	389.3
50°	315.2	321.8	340.7	365.4	377.8
52.5°	294.6	302.1	325.9	352.3	364.6
55°	273.2	282.3	309.5	337.4	350.6
57.5°	251.0	260.9	293.0	322.6	336.6
60°	228.0	240.3	275.7	307.0	321.8
62.5°	204.1	218.9	258.4	290.5	306.2
65°	179.4	196.7	240.3	274.1	289.7
67.5°	153.9	177.0	222.2	257.6	273.2
70°	128.4	155.6	203.3	239.5	255.1
72.5°	104.5	135.8	184.4	218.1	221.4
75°	81.5	116.0	164.6	167.9	162.1
77.5°	60.9	96.3	135.8	121.0	120.2
80°	43.6	77.4	87.2	89.7	90.5
82.5°	28.8	58.4	56.8	58.4	57.6
85°	17.3	28.8	29.6	28.8	27.2
87.5°	8.2	10.7	8.2	7.4	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)