

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: P263645

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263645
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2129.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

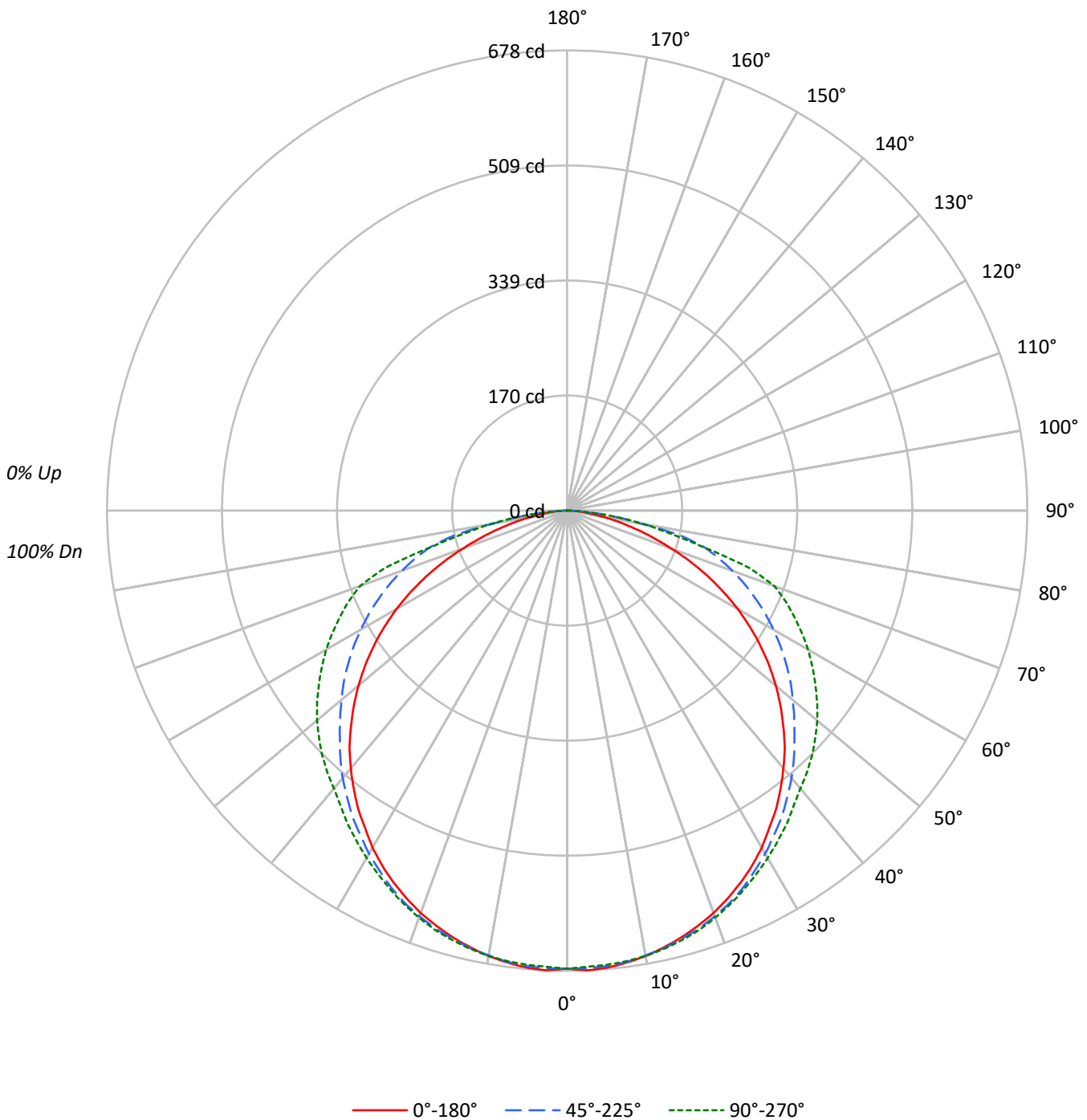
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	908	908	908
5°	913	910	907
10°	911	909	911
15°	907	909	912
20°	903	911	914
25°	898	910	915
30°	891	907	918
35°	881	905	926
40°	871	904	939
45°	857	901	971
50°	840	908	1007
55°	816	924	1047
60°	781	945	1103
65°	727	974	1174
70°	643	1018	1278
75°	540	1090	1074
80°	430	861	893
85°	340	582	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	3.0
10°-20°	184.2	8.7
20°-30°	281.4	13.2
30°-40°	344.0	16.2
40°-50°	368.2	17.3
50°-60°	353.2	16.6
60°-70°	298.2	14.0
70°-80°	190.6	9.0
80°-90°	45.1	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°	529.6	24.9
0°-40°	873.7	41.0
0°-60°	1595.1	74.9
0°-90°	2129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	676	672	674	673	672	64
15°	651	649	653	655	655	184
25°	605	604	613	615	616	279
35°	537	541	551	559	564	335
45°	451	458	474	496	510	348
55°	348	360	394	430	446	310
65°	228	250	306	349	369	225
75°	104	148	210	214	206	112
85°	22	37	38	37	35	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.9	674.9	674.9	674.9	674.9
2.5°	678.1	673.9	674.9	674.9	672.8
5°	676.0	671.8	673.9	672.8	671.8
7.5°	671.8	668.6	670.7	670.7	669.7
10°	666.5	663.4	665.5	666.5	666.5
12.5°	659.2	657.1	660.2	660.2	661.3
15°	650.8	648.7	652.9	655.0	655.0
17.5°	641.4	640.3	645.6	646.6	647.7
20°	630.9	629.8	636.1	636.1	638.2
22.5°	618.3	617.3	625.7	625.7	627.8
25°	604.7	603.6	613.1	615.2	616.2
27.5°	590.0	589.0	598.4	601.6	603.6
30°	573.3	573.3	583.7	587.9	591.1
32.5°	554.4	557.5	567.0	573.3	577.4
35°	536.6	540.8	551.2	558.6	563.8
37.5°	516.7	520.9	532.4	541.8	548.1
40°	495.7	500.9	514.6	525.0	534.5
42.5°	474.7	480.0	494.7	510.4	523.0
45°	450.6	458.0	473.7	495.7	510.4
47.5°	426.5	433.9	453.8	481.0	495.7
50°	401.4	409.8	433.9	465.3	481.0
52.5°	375.2	384.6	415.0	448.5	464.3
55°	347.9	359.5	394.0	429.7	446.4
57.5°	319.6	332.2	373.1	410.8	428.6
60°	290.3	306.0	351.1	390.9	409.8
62.5°	259.9	278.8	329.1	369.9	389.9
65°	228.5	250.5	306.0	349.0	368.9
67.5°	196.0	225.3	283.0	328.0	347.9
70°	163.5	198.1	258.9	305.0	324.9
72.5°	133.1	172.9	234.8	277.7	281.9
75°	103.8	147.8	209.6	213.8	206.5
77.5°	77.6	122.6	172.9	154.1	153.0
80°	55.5	98.5	111.1	114.2	115.3
82.5°	36.7	74.4	72.3	74.4	73.4
85°	22.0	36.7	37.7	36.7	34.6
87.5°	10.5	13.6	10.5	9.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)