

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: P230461

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230461
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-L935-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1706.8 lumens
Efficiency: N/A
Efficacy: 78.9 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

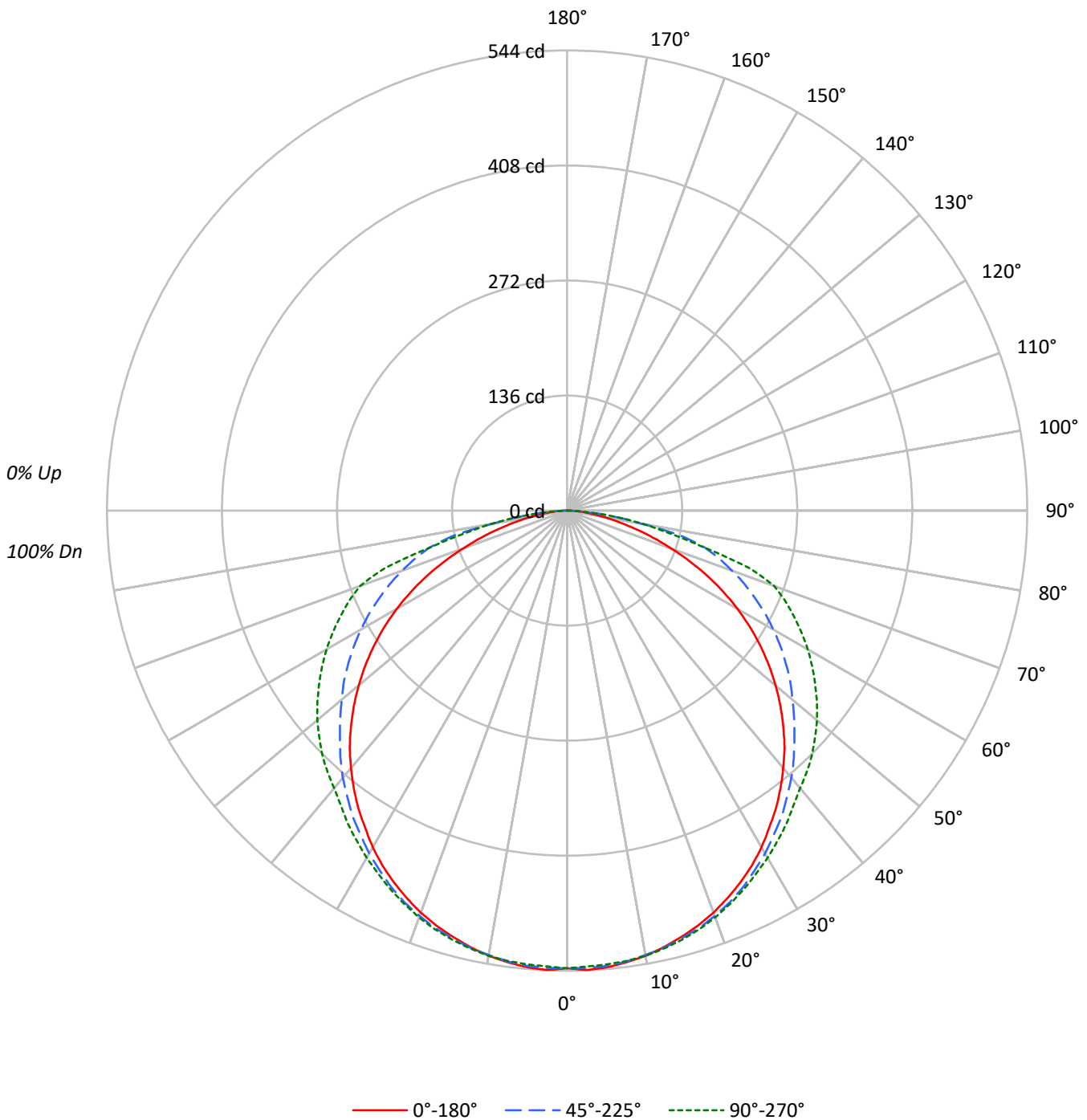
Input Watts (W): 21.62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	728	728	728
5°	732	730	727
10°	730	729	730
15°	727	729	731
20°	724	730	733
25°	720	730	733
30°	714	727	736
35°	707	726	742
40°	698	725	753
45°	687	723	779
50°	674	728	807
55°	654	741	840
60°	626	758	884
65°	583	781	941
70°	516	816	1025
75°	433	873	860
80°	345	690	716
85°	272	466	428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.0
10°-20°	147.7	8.7
20°-30°	225.6	13.2
30°-40°	275.8	16.2
40°-50°	295.2	17.3
50°-60°	283.2	16.6
60°-70°	239.1	14.0
70°-80°	152.8	9.0
80°-90°	36.1	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°	424.6	24.9
0°-40°	700.4	41.0
0°-60°	1278.8	74.9
0°-90°	1706.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	541	541	541	541	541	
5°	542	539	540	539	539	51
15°	522	520	523	525	525	147
25°	485	484	492	493	494	223
35°	430	434	442	448	452	269
45°	361	367	380	397	409	279
55°	279	288	316	344	358	249
65°	183	201	245	280	296	181
75°	83	118	168	171	166	90
85°	18	29	30	29	28	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	541.1	541.1	541.1	541.1	541.1
2.5°	543.6	540.2	541.1	541.1	539.4
5°	541.9	538.6	540.2	539.4	538.6
7.5°	538.6	536.0	537.7	537.7	536.9
10°	534.4	531.8	533.5	534.4	534.4
12.5°	528.5	526.8	529.3	529.3	530.2
15°	521.8	520.1	523.4	525.1	525.1
17.5°	514.2	513.4	517.6	518.4	519.2
20°	505.8	505.0	510.0	510.0	511.7
22.5°	495.7	494.9	501.6	501.6	503.3
25°	484.8	483.9	491.5	493.2	494.0
27.5°	473.0	472.2	479.7	482.3	483.9
30°	459.6	459.6	468.0	471.3	473.9
32.5°	444.5	447.0	454.5	459.6	462.9
35°	430.2	433.5	441.9	447.8	452.0
37.5°	414.2	417.6	426.8	434.4	439.4
40°	397.4	401.6	412.5	420.9	428.5
42.5°	380.6	384.8	396.6	409.2	419.3
45°	361.3	367.2	379.8	397.4	409.2
47.5°	342.0	347.8	363.8	385.6	397.4
50°	321.8	328.5	347.8	373.0	385.6
52.5°	300.8	308.3	332.7	359.6	372.2
55°	278.9	288.2	315.9	344.5	357.9
57.5°	256.3	266.3	299.1	329.4	343.6
60°	232.7	245.3	281.5	313.4	328.5
62.5°	208.4	223.5	263.8	296.6	312.5
65°	183.2	200.8	245.3	279.8	295.7
67.5°	157.1	180.6	226.9	263.0	278.9
70°	131.1	158.8	207.5	244.5	260.5
72.5°	106.7	138.6	188.2	222.6	226.0
75°	83.2	118.5	168.0	171.4	165.5
77.5°	62.2	98.3	138.6	123.5	122.7
80°	44.5	79.0	89.1	91.6	92.4
82.5°	29.4	59.7	58.0	59.7	58.8
85°	17.6	29.4	30.2	29.4	27.7
87.5°	8.4	10.9	8.4	7.6	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)