

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: P230464

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230464
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-LD5-35-RDP-UNV-L930-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1905.7 lumens
Efficiency: N/A
Efficacy: 75.3 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

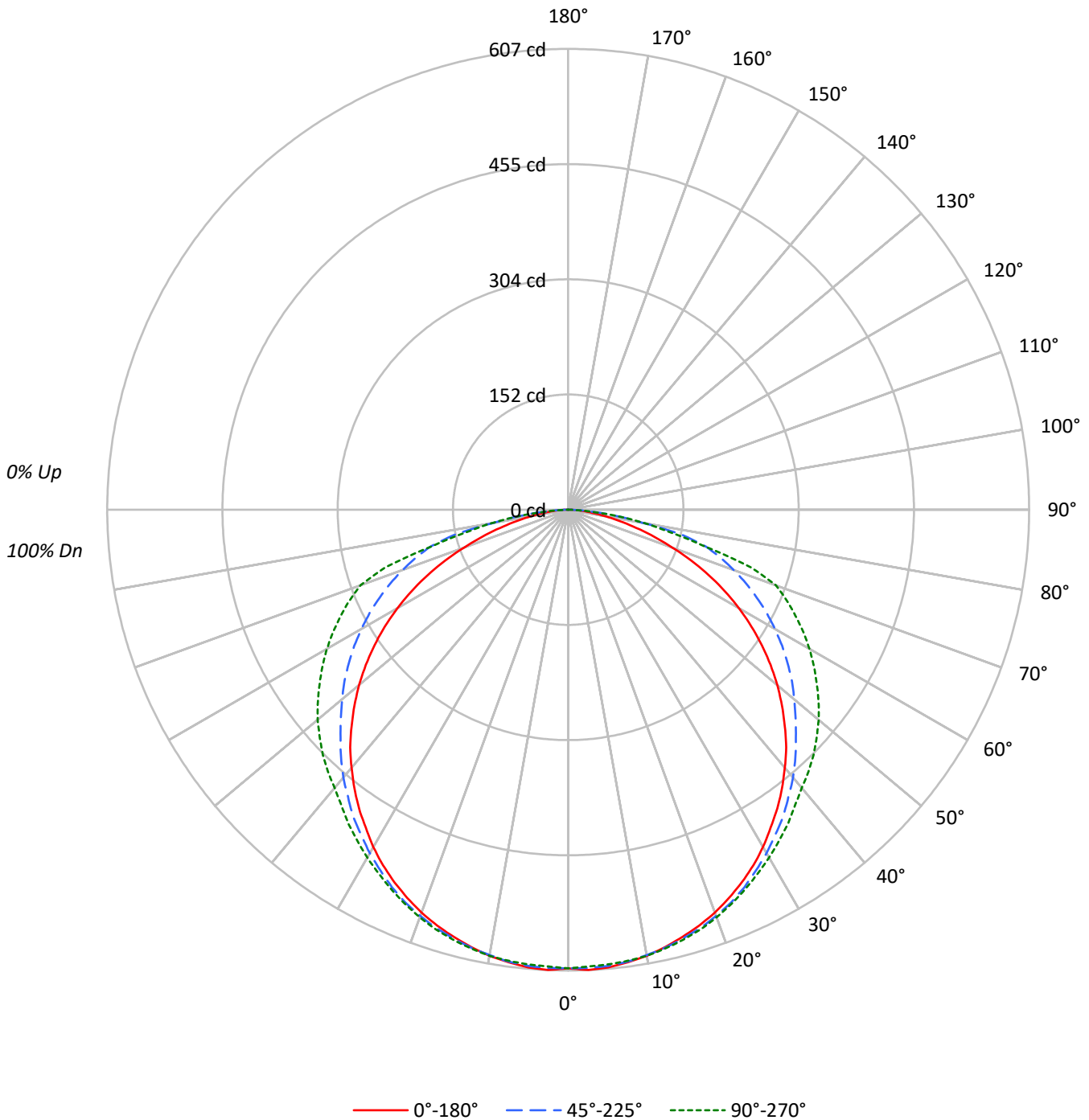
Input Watts (W): 25.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	813	813	813
5°	817	815	812
10°	815	814	815
15°	811	814	817
20°	809	815	818
25°	804	815	819
30°	797	812	822
35°	789	810	829
40°	779	809	840
45°	768	807	869
50°	752	813	901
55°	730	827	937
60°	699	846	987
65°	651	872	1051
70°	576	911	1144
75°	483	975	961
80°	385	770	800
85°	304	522	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.0
10°-20°	164.9	8.7
20°-30°	251.9	13.2
30°-40°	307.9	16.2
40°-50°	329.6	17.3
50°-60°	316.2	16.6
60°-70°	266.9	14.0
70°-80°	170.6	9.0
80°-90°	40.3	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°	474.1	24.9
0°-40°	782.0	41.0
0°-60°	1427.8	74.9
0°-90°	1905.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1905.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	605	601	603	602	601	57
15°	582	581	584	586	586	164
25°	541	540	549	551	552	249
35°	480	484	493	500	505	300
45°	403	410	424	444	457	311
55°	311	322	353	385	400	278
65°	204	224	274	312	330	202
75°	93	132	188	191	185	100
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°	604.1	604.1	604.1	604.1	604.1
2.5°	606.9	603.2	604.1	604.1	602.2
5°	605.1	601.3	603.2	602.2	601.3
7.5°	601.3	598.5	600.4	600.4	599.4
10°	596.6	593.8	595.7	596.6	596.6
12.5°	590.1	588.2	591.0	591.0	591.9
15°	582.5	580.7	584.4	586.3	586.3
17.5°	574.1	573.2	577.9	578.8	579.7
20°	564.7	563.8	569.4	569.4	571.3
22.5°	553.5	552.5	560.0	560.0	561.9
25°	541.3	540.3	548.8	550.7	551.6
27.5°	528.1	527.2	535.6	538.5	540.3
30°	513.1	513.1	522.5	526.3	529.1
32.5°	496.2	499.1	507.5	513.1	516.9
35°	480.3	484.0	493.4	500.0	504.7
37.5°	462.5	466.2	476.5	485.0	490.6
40°	443.7	448.4	460.6	470.0	478.4
42.5°	424.9	429.6	442.8	456.8	468.1
45°	403.4	409.9	424.0	443.7	456.8
47.5°	381.8	388.4	406.2	430.6	443.7
50°	359.3	366.8	388.4	416.5	430.6
52.5°	335.8	344.3	371.5	401.5	415.6
55°	311.4	321.8	352.7	384.6	399.6
57.5°	286.1	297.4	334.0	367.7	383.7
60°	259.8	273.9	314.3	349.9	366.8
62.5°	232.6	249.5	294.6	331.1	349.0
65°	204.5	224.2	273.9	312.4	330.2
67.5°	175.4	201.7	253.3	293.6	311.4
70°	146.3	177.3	231.7	273.0	290.8
72.5°	119.1	154.8	210.1	248.6	252.3
75°	92.9	132.3	187.6	191.4	184.8
77.5°	69.4	109.8	154.8	137.9	137.0
80°	49.7	88.2	99.4	102.3	103.2
82.5°	32.8	66.6	64.7	66.6	65.7
85°	19.7	32.8	33.8	32.8	31.0
87.5°	9.4	12.2	9.4	8.4	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)