

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: P263572

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263572  
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-L93050-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1902.8 lumens  
Efficiency: N/A  
Efficacy: 76.9 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

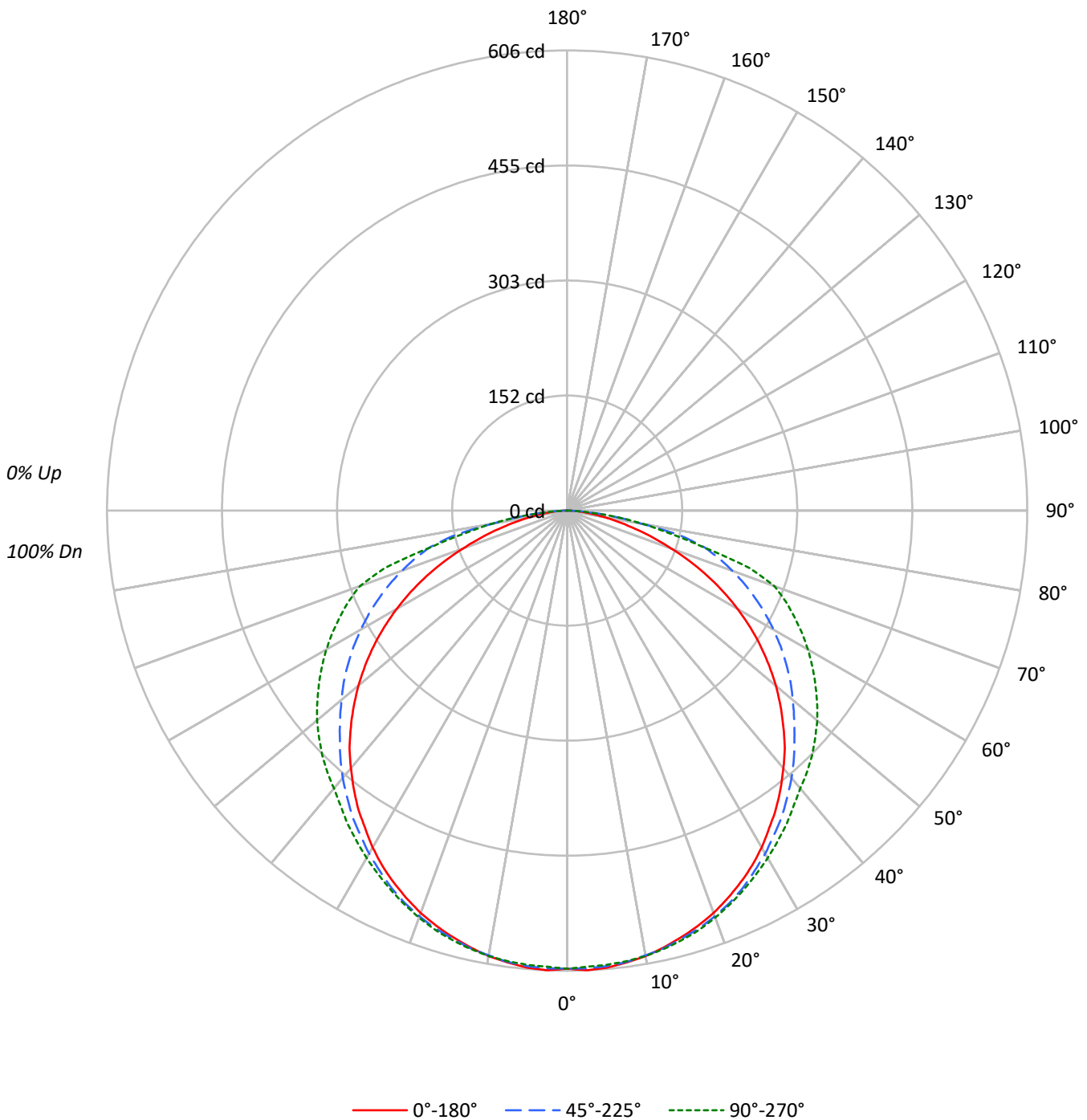
Input Watts (W): 24.73614  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	812	812	812
5°	816	813	811
10°	814	813	814
15°	810	813	815
20°	807	814	817
25°	802	813	818
30°	796	811	821
35°	788	809	828
40°	778	808	839
45°	766	806	868
50°	751	812	900
55°	730	826	936
60°	698	844	985
65°	650	871	1050
70°	575	910	1142
75°	482	974	959
80°	384	769	798
85°	304	520	477



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.2	3.0
10°-20°	164.6	8.7
20°-30°	251.5	13.2
30°-40°	307.5	16.2
40°-50°	329.1	17.3
50°-60°	315.7	16.6
60°-70°	266.5	14.0
70°-80°	170.3	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°	473.3	24.9
0°-40°	780.8	41.0
0°-60°	1425.6	74.9
0°-90°	1902.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1902.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	604	600	602	601	600	57
15°	582	580	584	585	585	164
25°	540	540	548	550	551	249
35°	480	483	493	499	504	300
45°	403	409	423	443	456	311
55°	311	321	352	384	399	278
65°	204	224	274	312	330	201
75°	93	132	187	191	184	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°	603.2	603.2	603.2	603.2	603.2
2.5°	606.0	602.3	603.2	603.2	601.3
5°	604.1	600.4	602.3	601.3	600.4
7.5°	600.4	597.6	599.4	599.4	598.5
10°	595.7	592.9	594.8	595.7	595.7
12.5°	589.1	587.3	590.1	590.1	591.0
15°	581.6	579.8	583.5	585.4	585.4
17.5°	573.2	572.3	577.0	577.9	578.8
20°	563.9	562.9	568.5	568.5	570.4
22.5°	552.6	551.7	559.2	559.2	561.0
25°	540.4	539.5	547.9	549.8	550.7
27.5°	527.3	526.4	534.8	537.6	539.5
30°	512.3	512.3	521.7	525.4	528.3
32.5°	495.5	498.3	506.7	512.3	516.1
35°	479.6	483.3	492.7	499.2	503.9
37.5°	461.8	465.5	475.8	484.2	489.9
40°	443.0	447.7	459.9	469.3	477.7
42.5°	424.3	429.0	442.1	456.1	467.4
45°	402.8	409.3	423.4	443.0	456.1
47.5°	381.2	387.8	405.6	429.9	443.0
50°	358.7	366.2	387.8	415.9	429.9
52.5°	335.3	343.7	370.9	400.9	414.9
55°	311.0	321.3	352.2	384.0	399.0
57.5°	285.7	296.9	333.4	367.2	383.1
60°	259.4	273.5	313.8	349.4	366.2
62.5°	232.3	249.1	294.1	330.6	348.4
65°	204.2	223.9	273.5	311.9	329.7
67.5°	175.1	201.4	252.9	293.2	311.0
70°	146.1	177.0	231.3	272.6	290.4
72.5°	119.0	154.5	209.8	248.2	252.0
75°	92.7	132.1	187.3	191.1	184.5
77.5°	69.3	109.6	154.5	137.7	136.7
80°	49.6	88.0	99.3	102.1	103.0
82.5°	32.8	66.5	64.6	66.5	65.6
85°	19.7	32.8	33.7	32.8	30.9
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)