

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: P263878

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263878  
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-LD5-35SE-RDP-UNV-L92765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2115.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 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

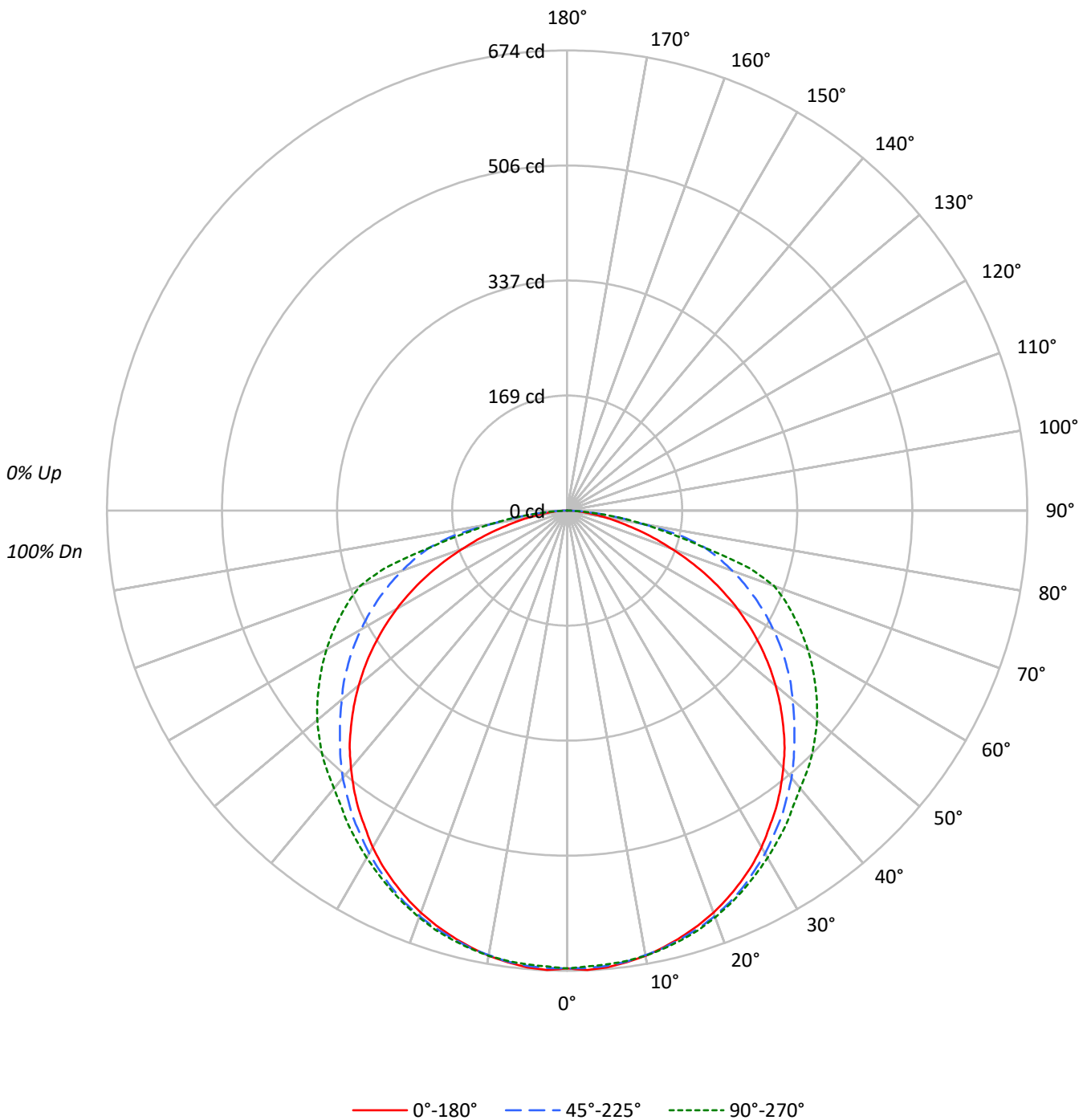
Input Watts (W): 26.133  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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°	902	902	902
5°	907	904	901
10°	905	903	905
15°	901	903	906
20°	897	905	908
25°	892	904	909
30°	885	901	912
35°	875	899	920
40°	865	898	933
45°	852	895	965
50°	835	902	1000
55°	811	918	1040
60°	776	939	1095
65°	723	968	1167
70°	639	1012	1269
75°	536	1082	1066
80°	428	855	887
85°	338	579	531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.6	3.0
10°-20°	183.0	8.7
20°-30°	279.5	13.2
30°-40°	341.8	16.2
40°-50°	365.8	17.3
50°-60°	350.9	16.6
60°-70°	296.3	14.0
70°-80°	189.3	9.0
80°-90°	44.8	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°	526.1	24.9
0°-40°	867.9	41.0
0°-60°	1584.6	74.9
0°-90°	2115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2115.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	672	667	669	668	667	64
15°	646	644	649	651	651	183
25°	601	600	609	611	612	277
35°	533	537	548	555	560	333
45°	448	455	471	492	507	345
55°	346	357	392	427	444	308
65°	227	249	304	347	366	224
75°	103	147	208	212	205	111
85°	22	36	38	36	34	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	670.5	670.5	670.5	670.5	670.5
2.5°	673.6	669.4	670.5	670.5	668.4
5°	671.5	667.3	669.4	668.4	667.3
7.5°	667.3	664.2	666.3	666.3	665.3
10°	662.1	659.0	661.1	662.1	662.1
12.5°	654.9	652.8	655.9	655.9	656.9
15°	646.5	644.4	648.6	650.7	650.7
17.5°	637.2	636.1	641.3	642.4	643.4
20°	626.7	625.7	632.0	632.0	634.0
22.5°	614.3	613.2	621.5	621.5	623.6
25°	600.7	599.7	609.0	611.1	612.2
27.5°	586.1	585.1	594.5	597.6	599.7
30°	569.5	569.5	579.9	584.1	587.2
32.5°	550.7	553.9	563.2	569.5	573.6
35°	533.0	537.2	547.6	554.9	560.1
37.5°	513.3	517.4	528.9	538.3	544.5
40°	492.4	497.6	511.2	521.6	531.0
42.5°	471.6	476.8	491.4	507.0	519.5
45°	447.7	455.0	470.6	492.4	507.0
47.5°	423.7	431.0	450.8	477.9	492.4
50°	398.7	407.1	431.0	462.3	477.9
52.5°	372.7	382.1	412.3	445.6	461.2
55°	345.6	357.1	391.5	426.9	443.5
57.5°	317.5	330.0	370.6	408.1	425.8
60°	288.4	304.0	348.8	388.3	407.1
62.5°	258.2	276.9	326.9	367.5	387.3
65°	227.0	248.8	304.0	346.7	366.5
67.5°	194.7	223.8	281.1	325.9	345.6
70°	162.4	196.8	257.2	303.0	322.7
72.5°	132.2	171.8	233.2	275.9	280.1
75°	103.1	146.8	208.2	212.4	205.1
77.5°	77.0	121.8	171.8	153.0	152.0
80°	55.2	97.9	110.4	113.5	114.5
82.5°	36.4	73.9	71.8	73.9	72.9
85°	21.9	36.4	37.5	36.4	34.4
87.5°	10.4	13.5	10.4	9.4	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)