

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: P276787

Luminaire Tested: **24CZ2-35-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2139.0 lumens
Efficiency: N/A
Efficacy: 82.3 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

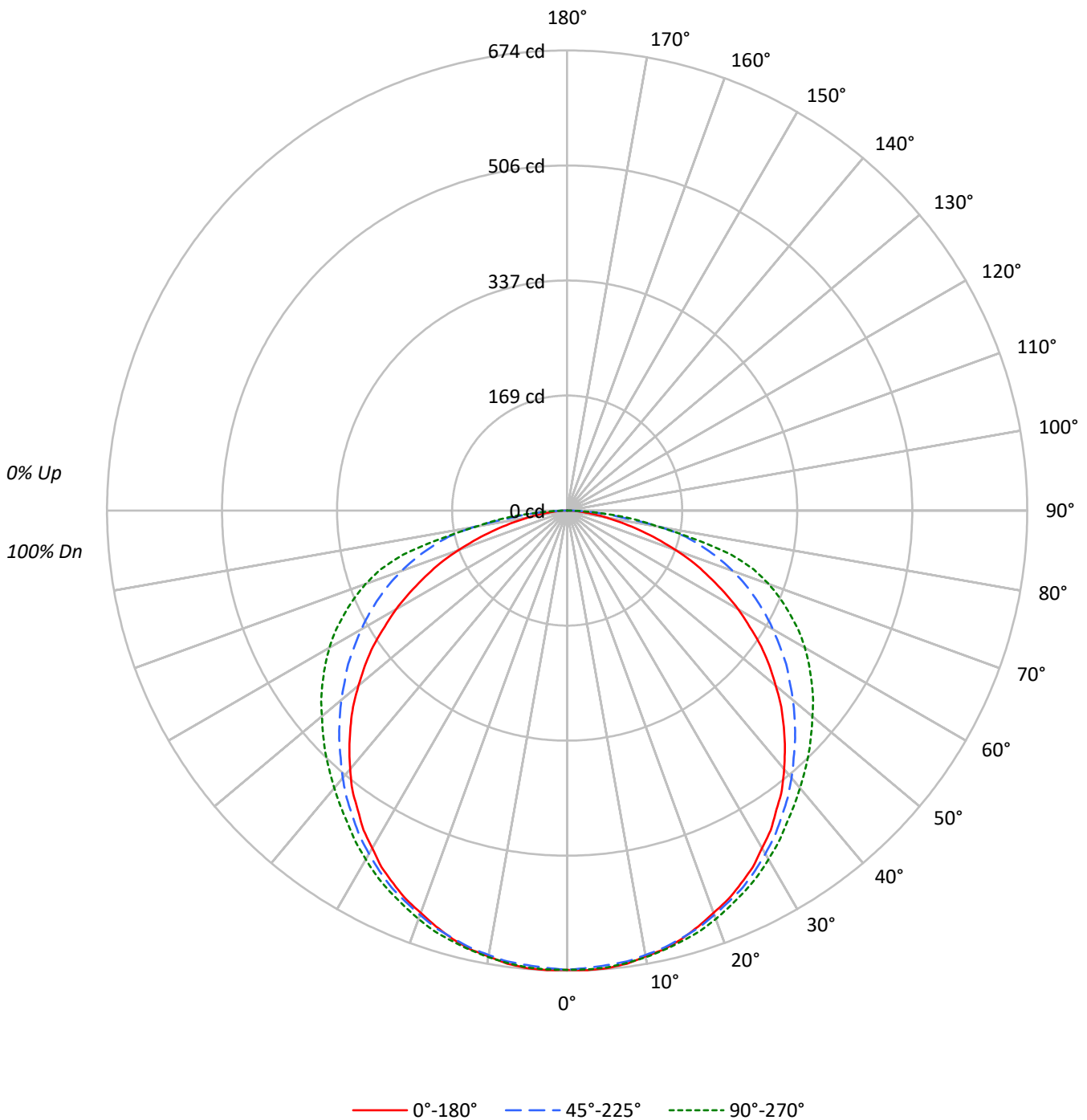
Input Watts (W): 25.98792
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	905	905	905
5°	909	903	907
10°	906	903	907
15°	904	903	909
20°	898	902	912
25°	895	904	914
30°	887	902	916
35°	878	899	920
40°	868	898	932
45°	854	898	953
50°	835	904	982
55°	814	918	1025
60°	779	936	1082
65°	730	969	1148
70°	664	1014	1235
75°	562	1070	1291
80°	444	1077	1044
85°	327	818	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.0
10°-20°	183.6	8.6
20°-30°	280.8	13.1
30°-40°	343.3	16.1
40°-50°	365.9	17.1
50°-60°	349.8	16.4
60°-70°	296.3	13.9
70°-80°	199.2	9.3
80°-90°	56.2	2.6
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°	528.3	24.7
0°-40°	871.6	40.7
0°-60°	1587.3	74.2
0°-90°	2139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	673	672	668	672	672	64
15°	649	649	648	654	652	183
25°	603	605	609	614	615	278
35°	535	539	548	558	560	335
45°	449	456	472	492	501	346
55°	347	360	392	422	437	309
65°	229	252	304	345	361	228
75°	108	148	206	241	248	116
85°	21	44	53	57	59	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	672.7	672.7	672.7	672.7	672.7
2.5°	673.7	673.7	670.5	672.7	672.7
5°	672.7	671.6	668.4	671.6	671.6
7.5°	669.5	668.4	666.3	669.5	668.4
10°	663.1	663.1	661.0	664.2	664.2
12.5°	657.8	656.7	655.7	659.9	658.9
15°	649.3	649.3	648.3	653.6	652.5
17.5°	638.7	639.8	640.8	645.1	646.1
20°	627.0	629.2	630.2	636.6	636.6
22.5°	616.4	617.5	619.6	626.0	626.0
25°	602.6	604.8	609.0	614.3	615.4
27.5°	588.8	589.9	595.2	602.6	603.7
30°	570.8	574.0	580.4	588.8	589.9
32.5°	554.9	558.1	565.5	574.0	576.1
35°	534.7	539.0	547.5	558.1	560.2
37.5°	516.7	519.9	530.5	542.2	545.3
40°	494.4	500.8	511.4	525.2	530.5
42.5°	472.1	478.5	491.2	509.3	515.6
45°	448.8	456.2	472.1	492.3	500.8
47.5°	425.4	433.9	452.0	475.3	484.9
50°	398.9	409.5	431.8	458.3	468.9
52.5°	373.5	386.2	410.6	440.3	454.1
55°	346.9	359.7	391.5	422.3	437.1
57.5°	317.2	334.2	369.2	404.2	420.1
60°	289.6	305.6	348.0	386.2	402.1
62.5°	259.9	281.2	326.8	367.1	383.0
65°	229.2	252.5	304.5	344.8	360.7
67.5°	201.6	227.0	282.2	322.5	338.4
70°	168.7	200.5	257.8	298.1	314.0
72.5°	137.9	172.9	232.4	271.6	286.5
75°	108.2	147.5	205.8	240.8	248.3
77.5°	80.6	122.0	178.2	193.1	187.8
80°	57.3	97.6	139.0	131.6	134.7
82.5°	37.1	74.3	85.9	97.6	100.8
85°	21.2	43.5	53.0	57.3	59.4
87.5°	9.5	15.9	21.2	21.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)