

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: P276981

Luminaire Tested: **24CZ2-35-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276981
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-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2076.7 lumens
Efficiency: N/A
Efficacy: 79.8 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

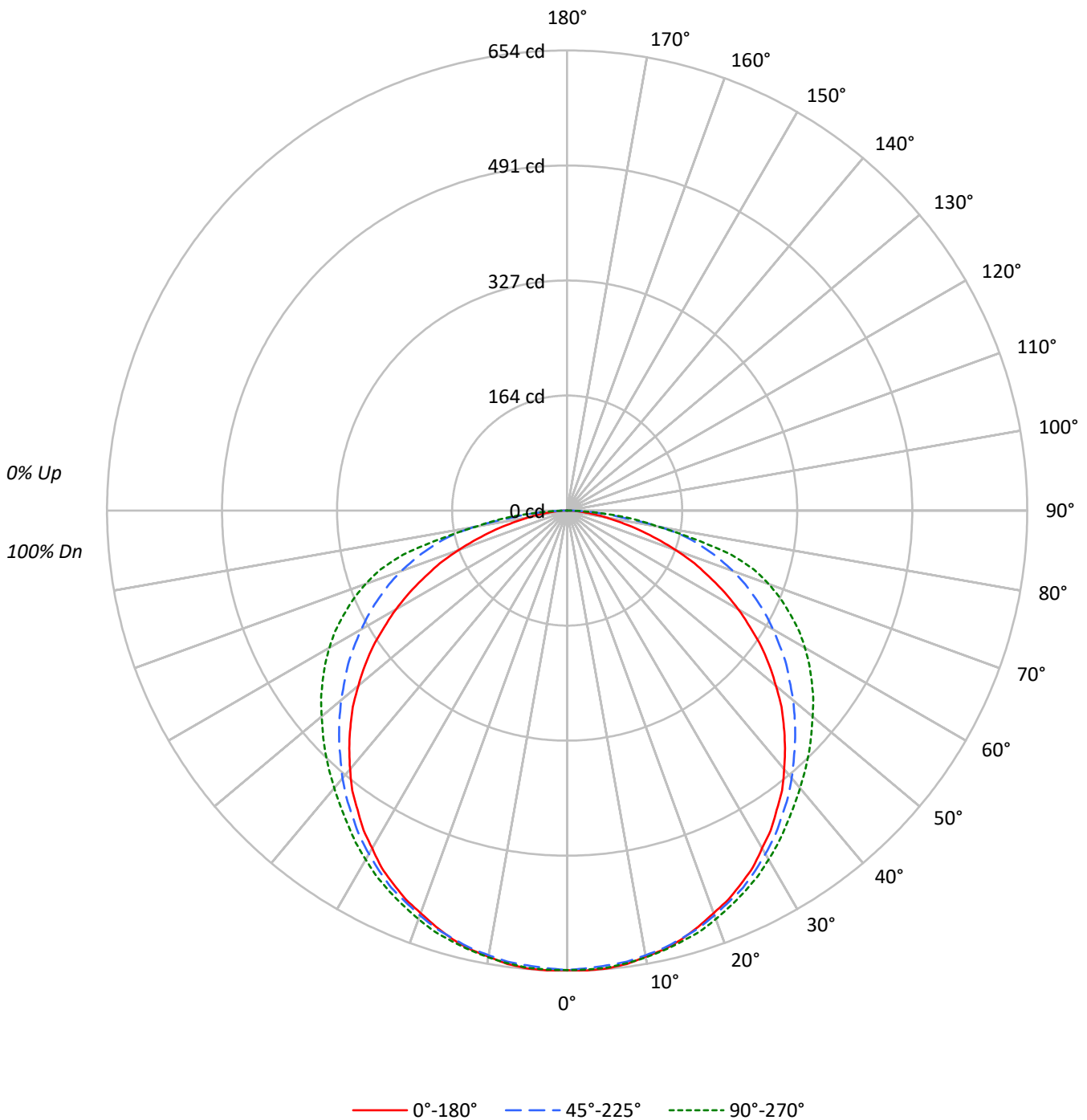
Input Watts (W): 26.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	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°	879	879	879
5°	882	876	881
10°	880	877	881
15°	878	877	882
20°	872	876	885
25°	869	878	887
30°	861	875	890
35°	853	873	893
40°	843	872	905
45°	829	872	925
50°	811	877	953
55°	790	892	996
60°	757	909	1051
65°	708	941	1115
70°	644	985	1199
75°	546	1039	1253
80°	431	1045	1013
85°	318	795	891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	3.0
10°-20°	178.3	8.6
20°-30°	272.6	13.1
30°-40°	333.3	16.0
40°-50°	355.2	17.1
50°-60°	339.7	16.4
60°-70°	287.7	13.9
70°-80°	193.4	9.3
80°-90°	54.5	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°	512.9	24.7
0°-40°	846.2	40.7
0°-60°	1541.1	74.2
0°-90°	2076.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2076.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	653	652	649	652	652	62
15°	630	630	629	634	634	178
25°	585	587	591	596	597	270
35°	519	523	532	542	544	325
45°	436	443	458	478	486	336
55°	337	349	380	410	424	300
65°	222	245	296	335	350	221
75°	105	143	200	234	241	113
85°	21	42	52	56	58	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	653.1	653.1	653.1	653.1	653.1
2.5°	654.1	654.1	651.0	653.1	653.1
5°	653.1	652.0	648.9	652.0	652.0
7.5°	650.0	648.9	646.9	650.0	648.9
10°	643.8	643.8	641.7	644.8	644.8
12.5°	638.6	637.6	636.6	640.7	639.7
15°	630.4	630.4	629.4	634.5	633.5
17.5°	620.1	621.1	622.2	626.3	627.3
20°	608.8	610.8	611.9	618.0	618.0
22.5°	598.5	599.5	601.6	607.7	607.7
25°	585.1	587.1	591.3	596.4	597.4
27.5°	571.7	572.7	577.9	585.1	586.1
30°	554.2	557.3	563.4	571.7	572.7
32.5°	538.7	541.8	549.0	557.3	559.3
35°	519.2	523.3	531.5	541.8	543.9
37.5°	501.6	504.7	515.0	526.4	529.5
40°	480.0	486.2	496.5	509.9	515.0
42.5°	458.4	464.6	476.9	494.4	500.6
45°	435.7	442.9	458.4	478.0	486.2
47.5°	413.1	421.3	438.8	461.5	470.7
50°	387.3	397.6	419.2	445.0	455.3
52.5°	362.6	374.9	398.6	427.5	440.9
55°	336.8	349.2	380.1	410.0	424.4
57.5°	308.0	324.5	358.5	392.5	407.9
60°	281.2	296.7	337.9	374.9	390.4
62.5°	252.4	273.0	317.3	356.4	371.9
65°	222.5	245.2	295.6	334.8	350.2
67.5°	195.7	220.4	274.0	313.1	328.6
70°	163.8	194.7	250.3	289.4	304.9
72.5°	133.9	167.9	225.6	263.7	278.1
75°	105.1	143.2	199.8	233.8	241.0
77.5°	78.3	118.5	173.1	187.5	182.3
80°	55.6	94.8	134.9	127.7	130.8
82.5°	36.1	72.1	83.4	94.8	97.9
85°	20.6	42.2	51.5	55.6	57.7
87.5°	9.3	15.5	20.6	20.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)