

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: P277124

Luminaire Tested: **24CZ2-35-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277124
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-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2148.0 lumens
Efficiency: N/A
Efficacy: 78.8 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

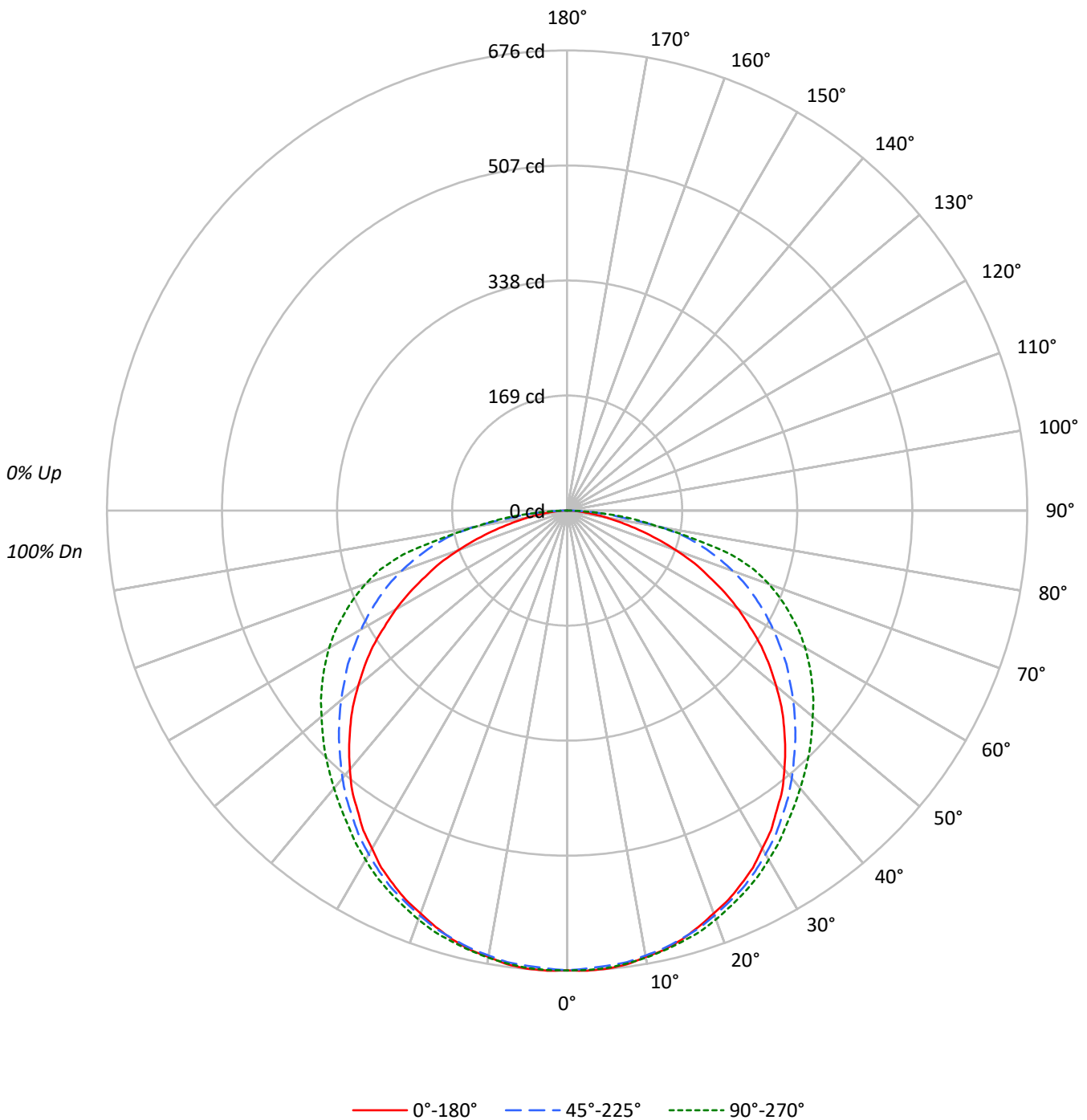
Input Watts (W): 27.249
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	909	909	909
5°	912	907	911
10°	910	907	911
15°	908	907	913
20°	902	906	915
25°	898	908	917
30°	891	905	920
35°	882	903	924
40°	872	902	936
45°	858	902	957
50°	839	908	986
55°	817	922	1030
60°	783	940	1087
65°	733	974	1153
70°	666	1018	1241
75°	565	1075	1296
80°	446	1082	1048
85°	329	823	922



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	3.0
10°-20°	184.4	8.6
20°-30°	282.0	13.1
30°-40°	344.7	16.0
40°-50°	367.4	17.1
50°-60°	351.3	16.4
60°-70°	297.6	13.9
70°-80°	200.0	9.3
80°-90°	56.4	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°	530.5	24.7
0°-40°	875.2	40.7
0°-60°	1593.9	74.2
0°-90°	2148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	676	674	671	674	674	64
15°	652	652	651	656	655	184
25°	605	607	612	617	618	279
35°	537	541	550	560	562	336
45°	451	458	474	494	503	348
55°	348	361	393	424	439	310
65°	230	254	306	346	362	228
75°	109	148	207	242	249	116
85°	21	44	53	58	60	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.5	675.5	675.5	675.5	675.5
2.5°	676.5	676.5	673.3	675.5	675.5
5°	675.5	674.4	671.2	674.4	674.4
7.5°	672.3	671.2	669.1	672.3	671.2
10°	665.9	665.9	663.8	666.9	666.9
12.5°	660.6	659.5	658.4	662.7	661.6
15°	652.0	652.0	651.0	656.3	655.2
17.5°	641.4	642.4	643.5	647.8	648.8
20°	629.7	631.8	632.9	639.2	639.2
22.5°	619.0	620.1	622.2	628.6	628.6
25°	605.2	607.3	611.5	616.9	617.9
27.5°	591.3	592.4	597.7	605.2	606.2
30°	573.2	576.4	582.8	591.3	592.4
32.5°	557.2	560.4	567.9	576.4	578.5
35°	537.0	541.2	549.8	560.4	562.5
37.5°	518.9	522.1	532.7	544.4	547.6
40°	496.5	502.9	513.5	527.4	532.7
42.5°	474.1	480.5	493.3	511.4	517.8
45°	450.7	458.1	474.1	494.4	502.9
47.5°	427.2	435.8	453.9	477.3	486.9
50°	400.6	411.2	433.6	460.3	470.9
52.5°	375.0	387.8	412.3	442.1	456.0
55°	348.4	361.2	393.1	424.0	439.0
57.5°	318.6	335.6	370.8	405.9	421.9
60°	290.9	306.8	349.5	387.8	403.8
62.5°	261.0	282.3	328.1	368.6	384.6
65°	230.1	253.6	305.8	346.3	362.2
67.5°	202.4	228.0	283.4	323.9	339.9
70°	169.4	201.4	258.9	299.4	315.4
72.5°	138.5	173.7	233.3	272.7	287.7
75°	108.7	148.1	206.7	241.8	249.3
77.5°	81.0	122.5	179.0	193.9	188.6
80°	57.5	98.0	139.6	132.1	135.3
82.5°	37.3	74.6	86.3	98.0	101.2
85°	21.3	43.7	53.3	57.5	59.7
87.5°	9.6	16.0	21.3	21.3	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)