

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: P276869

Luminaire Tested: **24CZ2-40-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276869
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: 24CZ2-40-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2364.3 lumens
Efficiency: N/A
Efficacy: 75.8 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

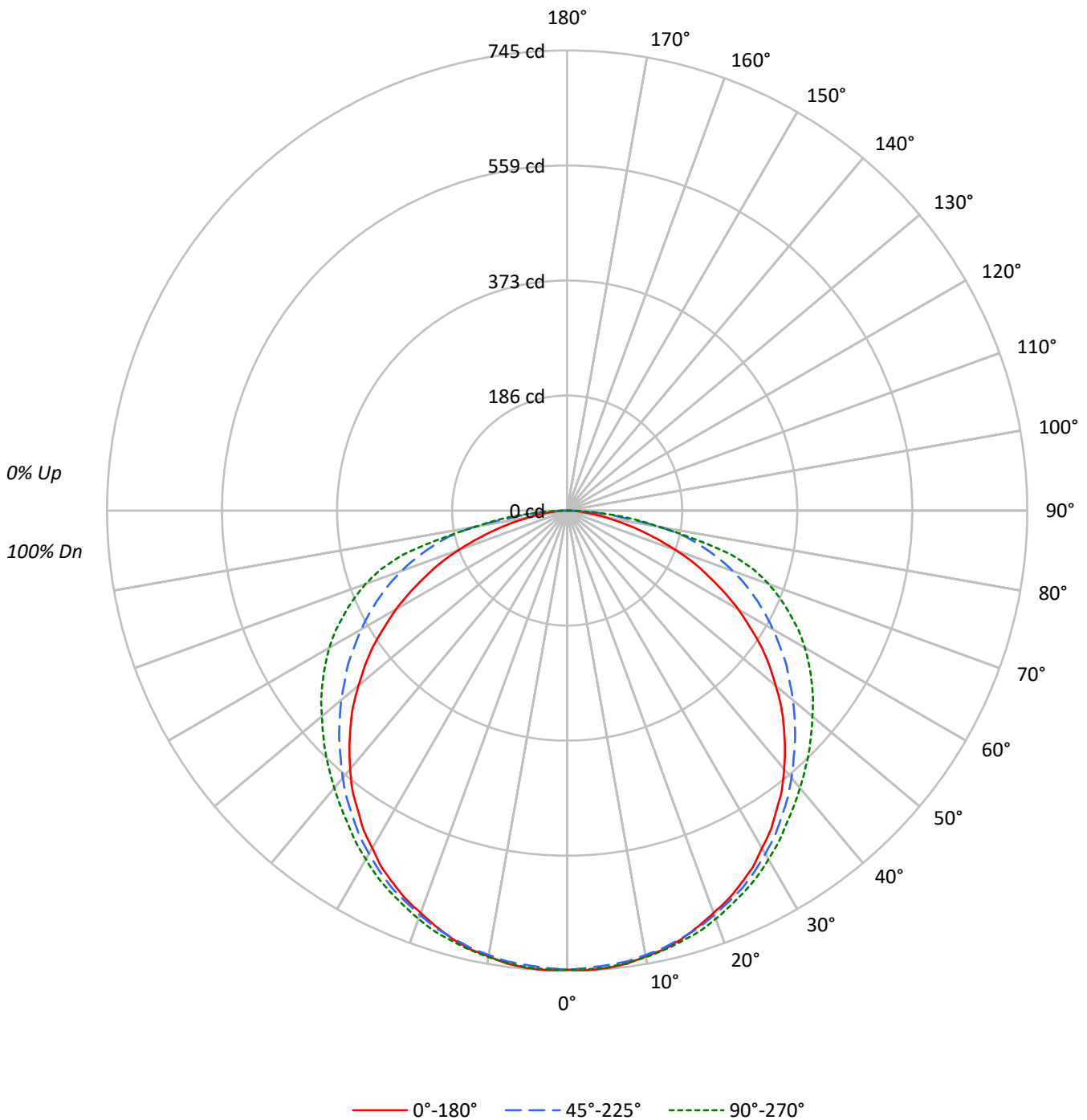
Input Watts (W): 31.201686
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1000	1000	1000
5°	1004	998	1003
10°	1001	998	1003
15°	1000	998	1005
20°	992	997	1007
25°	989	999	1010
30°	980	997	1013
35°	971	994	1017
40°	960	993	1030
45°	944	993	1053
50°	923	999	1085
55°	900	1015	1133
60°	862	1035	1196
65°	806	1072	1269
70°	734	1121	1365
75°	622	1183	1426
80°	490	1190	1154
85°	363	905	1014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.0
10°-20°	203.0	8.6
20°-30°	310.4	13.1
30°-40°	379.5	16.0
40°-50°	404.4	17.1
50°-60°	386.7	16.4
60°-70°	327.6	13.9
70°-80°	220.1	9.3
80°-90°	62.1	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°	583.9	24.7
0°-40°	963.4	40.7
0°-60°	1754.5	74.2
0°-90°	2364.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2364.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	744	742	739	742	742	71
15°	718	718	716	722	721	202
25°	666	668	673	679	680	307
35°	591	596	605	617	619	370
45°	496	504	522	544	554	383
55°	384	398	433	467	483	342
65°	253	279	337	381	399	251
75°	120	163	228	266	274	128
85°	24	48	59	63	66	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.5	743.5	743.5	743.5	743.5
2.5°	744.7	744.7	741.2	743.5	743.5
5°	743.5	742.3	738.8	742.3	742.3
7.5°	740.0	738.8	736.5	740.0	738.8
10°	733.0	733.0	730.6	734.1	734.1
12.5°	727.1	725.9	724.7	729.4	728.3
15°	717.7	717.7	716.5	722.4	721.2
17.5°	706.0	707.2	708.3	713.0	714.2
20°	693.1	695.4	696.6	703.6	703.6
22.5°	681.4	682.5	684.9	691.9	691.9
25°	666.1	668.5	673.1	679.0	680.2
27.5°	650.9	652.0	657.9	666.1	667.3
30°	630.9	634.4	641.5	650.9	652.0
32.5°	613.3	616.9	625.1	634.4	636.8
35°	591.1	595.7	605.1	616.9	619.2
37.5°	571.1	574.6	586.4	599.3	602.8
40°	546.5	553.5	565.3	580.5	586.4
42.5°	521.9	528.9	543.0	562.9	569.9
45°	496.1	504.3	521.9	544.1	553.5
47.5°	470.3	479.6	499.6	525.4	535.9
50°	440.9	452.7	477.3	506.6	518.3
52.5°	412.8	426.9	453.8	486.7	501.9
55°	383.5	397.6	432.7	466.7	483.2
57.5°	350.6	369.4	408.1	446.8	464.4
60°	320.2	337.7	384.7	426.9	444.5
62.5°	287.3	310.8	361.2	405.8	423.4
65°	253.3	279.1	336.6	381.1	398.7
67.5°	222.8	251.0	311.9	356.5	374.1
70°	186.5	221.6	285.0	329.5	347.1
72.5°	152.5	191.2	256.8	300.2	316.6
75°	119.6	163.0	227.5	266.2	274.4
77.5°	89.1	134.9	197.0	213.4	207.6
80°	63.3	107.9	153.6	145.4	148.9
82.5°	41.0	82.1	95.0	107.9	111.4
85°	23.5	48.1	58.6	63.3	65.7
87.5°	10.6	17.6	23.5	23.5	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)