

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: P276990

Luminaire Tested: **24CZ2-40-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276990
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-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: 2363.0 lumens
Efficiency: N/A
Efficacy: 77.7 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

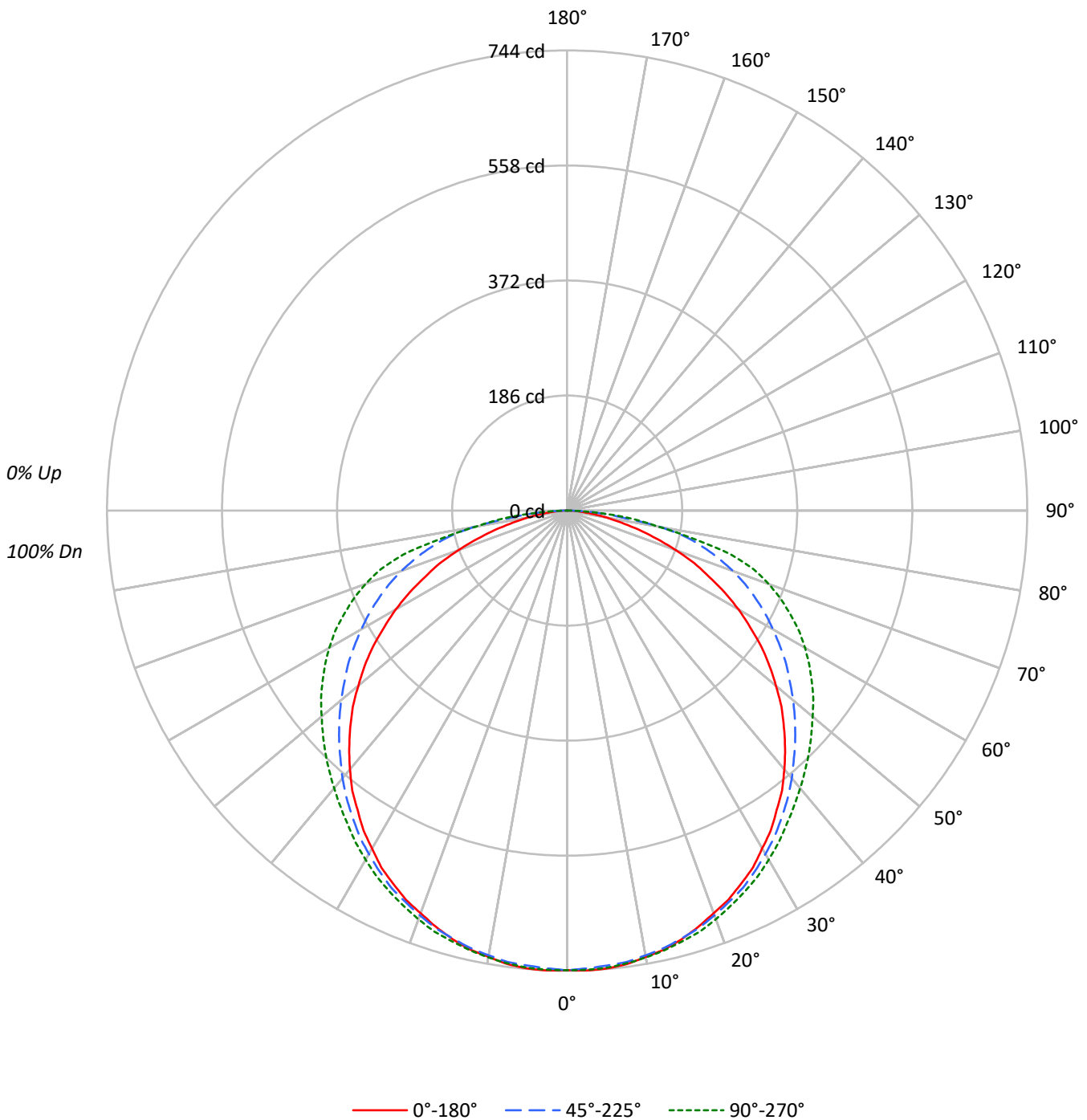
Input Watts (W): 30.411
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	997	1002
10°	1001	998	1002
15°	999	997	1004
20°	992	997	1007
25°	988	999	1009
30°	980	996	1013
35°	970	993	1017
40°	959	992	1029
45°	943	993	1053
50°	922	998	1084
55°	899	1015	1133
60°	861	1034	1195
65°	806	1071	1269
70°	733	1120	1365
75°	622	1182	1426
80°	490	1189	1154
85°	361	905	1013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.0
10°-20°	202.9	8.6
20°-30°	310.2	13.1
30°-40°	379.2	16.0
40°-50°	404.2	17.1
50°-60°	386.5	16.4
60°-70°	327.4	13.9
70°-80°	220.0	9.3
80°-90°	62.0	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°	583.6	24.7
0°-40°	962.8	40.7
0°-60°	1753.5	74.2
0°-90°	2363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	743	742	738	742	742	71
15°	717	717	716	722	721	202
25°	666	668	673	679	680	307
35°	591	595	605	616	619	370
45°	496	504	522	544	553	382
55°	383	397	432	466	483	341
65°	253	279	336	381	398	251
75°	120	163	227	266	274	128
85°	23	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°	743.1	743.1	743.1	743.1	743.1
2.5°	744.3	744.3	740.8	743.1	743.1
5°	743.1	741.9	738.4	741.9	741.9
7.5°	739.6	738.4	736.1	739.6	738.4
10°	732.6	732.6	730.2	733.7	733.7
12.5°	726.7	725.5	724.3	729.0	727.9
15°	717.3	717.3	716.1	722.0	720.8
17.5°	705.6	706.8	707.9	712.6	713.8
20°	692.7	695.0	696.2	703.2	703.2
22.5°	681.0	682.2	684.5	691.5	691.5
25°	665.7	668.1	672.8	678.6	679.8
27.5°	650.5	651.7	657.5	665.7	666.9
30°	630.6	634.1	641.1	650.5	651.7
32.5°	613.0	616.5	624.7	634.1	636.4
35°	590.7	595.4	604.8	616.5	618.9
37.5°	570.8	574.3	586.0	598.9	602.5
40°	546.2	553.2	564.9	580.2	586.0
42.5°	521.6	528.6	542.7	562.6	569.6
45°	495.8	504.0	521.6	543.8	553.2
47.5°	470.0	479.4	499.3	525.1	535.6
50°	440.7	452.4	477.0	506.3	518.1
52.5°	412.6	426.6	453.6	486.4	501.7
55°	383.3	397.3	432.5	466.5	482.9
57.5°	350.5	369.2	407.9	446.6	464.1
60°	320.0	337.6	384.4	426.6	444.2
62.5°	287.2	310.6	361.0	405.5	423.1
65°	253.2	279.0	336.4	380.9	398.5
67.5°	222.7	250.8	311.8	356.3	373.9
70°	186.4	221.5	284.8	329.4	346.9
72.5°	152.4	191.0	256.7	300.1	316.5
75°	119.6	162.9	227.4	266.1	274.3
77.5°	89.1	134.8	196.9	213.3	207.5
80°	63.3	107.8	153.5	145.3	148.9
82.5°	41.0	82.0	94.9	107.8	111.3
85°	23.4	48.1	58.6	63.3	65.6
87.5°	10.5	17.6	23.4	23.4	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)