

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: P277132

Luminaire Tested: **24CZ2-40-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277132
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-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2427.9 lumens
Efficiency: N/A
Efficacy: 77.5 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

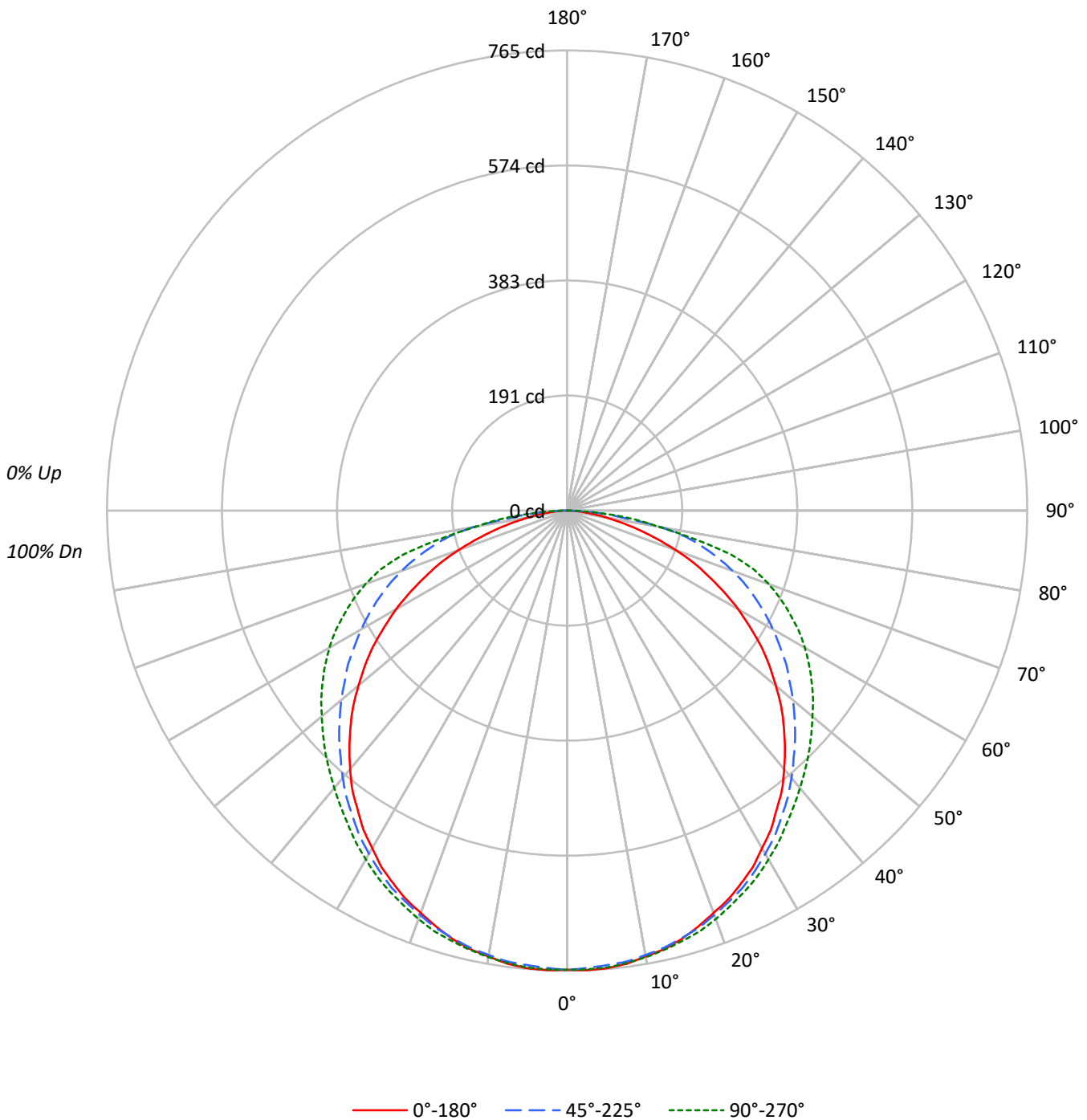
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1027	1027	1027
5°	1031	1025	1030
10°	1028	1025	1030
15°	1027	1025	1032
20°	1019	1024	1035
25°	1015	1026	1037
30°	1007	1023	1040
35°	997	1021	1044
40°	986	1020	1058
45°	969	1020	1082
50°	948	1026	1114
55°	924	1042	1164
60°	885	1063	1228
65°	828	1100	1304
70°	753	1151	1402
75°	638	1214	1465
80°	504	1223	1185
85°	372	929	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	3.0
10°-20°	208.4	8.6
20°-30°	318.8	13.1
30°-40°	389.7	16.0
40°-50°	415.3	17.1
50°-60°	397.1	16.4
60°-70°	336.4	13.9
70°-80°	226.1	9.3
80°-90°	63.8	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°	599.6	24.7
0°-40°	989.3	40.7
0°-60°	1801.7	74.2
0°-90°	2427.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2427.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	764	762	759	762	762	73
15°	737	737	736	742	741	208
25°	684	686	691	697	698	315
35°	607	612	621	633	636	380
45°	509	518	536	559	568	393
55°	394	408	444	479	496	351
65°	260	287	346	391	410	258
75°	123	167	234	273	282	132
85°	24	49	60	65	67	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.5	763.5	763.5	763.5	763.5
2.5°	764.7	764.7	761.1	763.5	763.5
5°	763.5	762.3	758.7	762.3	762.3
7.5°	759.9	758.7	756.3	759.9	758.7
10°	752.7	752.7	750.3	753.9	753.9
12.5°	746.6	745.4	744.2	749.1	747.9
15°	737.0	737.0	735.8	741.8	740.6
17.5°	725.0	726.2	727.4	732.2	733.4
20°	711.7	714.1	715.3	722.6	722.6
22.5°	699.7	700.9	703.3	710.5	710.5
25°	684.0	686.4	691.3	697.3	698.5
27.5°	668.4	669.6	675.6	684.0	685.2
30°	647.9	651.5	658.7	668.4	669.6
32.5°	629.8	633.4	641.9	651.5	653.9
35°	607.0	611.8	621.4	633.4	635.9
37.5°	586.5	590.1	602.1	615.4	619.0
40°	561.2	568.4	580.5	596.1	602.1
42.5°	535.9	543.1	557.6	578.1	585.3
45°	509.4	517.8	535.9	558.8	568.4
47.5°	482.9	492.5	513.0	539.5	550.4
50°	452.8	464.8	490.1	520.2	532.3
52.5°	423.9	438.4	466.1	499.8	515.4
55°	393.8	408.2	444.4	479.3	496.2
57.5°	360.1	379.3	419.1	458.8	476.9
60°	328.8	346.8	395.0	438.4	456.4
62.5°	295.0	319.1	370.9	416.7	434.7
65°	260.1	286.6	345.6	391.4	409.5
67.5°	228.8	257.7	320.3	366.1	384.2
70°	191.5	227.6	292.6	338.4	356.5
72.5°	156.6	196.3	263.7	308.3	325.2
75°	122.8	167.4	233.6	273.4	281.8
77.5°	91.5	138.5	202.3	219.2	213.2
80°	65.0	110.8	157.8	149.3	152.9
82.5°	42.1	84.3	97.5	110.8	114.4
85°	24.1	49.4	60.2	65.0	67.4
87.5°	10.8	18.1	24.1	24.1	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)