

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: P230468

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-RDP-UNV-L930-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2162.5 lumens
Efficiency: N/A
Efficacy: 74.5 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

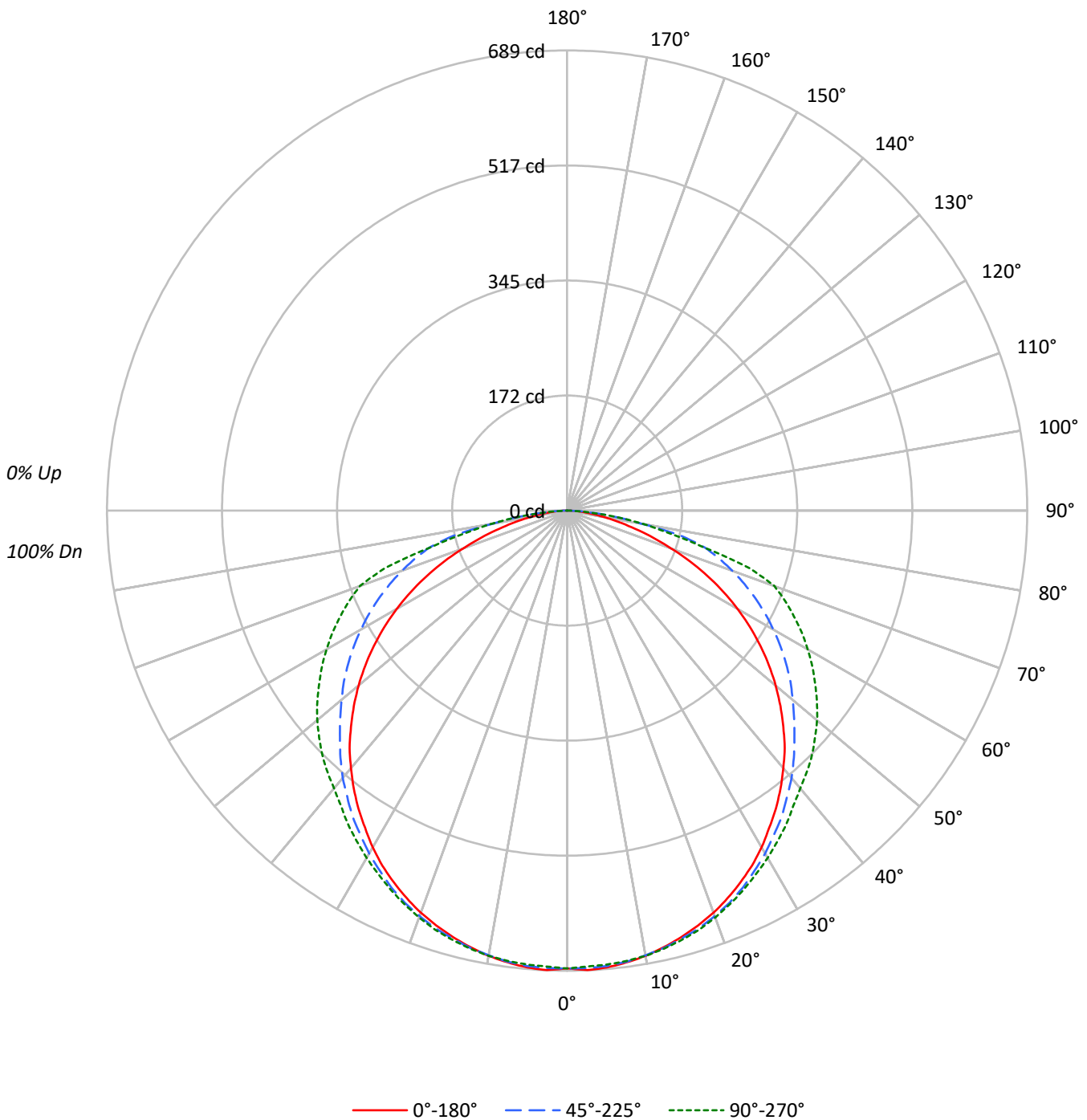
Input Watts (W): 29.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	922	922	922
5°	927	925	922
10°	925	924	925
15°	921	924	927
20°	918	925	928
25°	912	924	929
30°	905	921	933
35°	895	920	941
40°	884	918	954
45°	871	916	986
50°	853	922	1023
55°	829	939	1064
60°	794	960	1120
65°	739	989	1193
70°	653	1034	1298
75°	548	1107	1090
80°	437	874	907
85°	346	591	542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	3.0
10°-20°	187.1	8.7
20°-30°	285.8	13.2
30°-40°	349.4	16.2
40°-50°	374.0	17.3
50°-60°	358.8	16.6
60°-70°	302.9	14.0
70°-80°	193.6	9.0
80°-90°	45.8	2.1
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°	538.0	24.9
0°-40°	887.4	41.0
0°-60°	1620.2	74.9
0°-90°	2162.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2162.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	687	682	684	683	682	65
15°	661	659	663	665	665	187
25°	614	613	623	625	626	283
35°	545	549	560	567	573	341
45°	458	465	481	504	518	353
55°	353	365	400	436	454	315
65°	232	254	311	354	375	229
75°	105	150	213	217	210	113
85°	22	37	38	37	35	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	685.5	685.5	685.5	685.5	685.5
2.5°	688.7	684.5	685.5	685.5	683.4
5°	686.6	682.3	684.5	683.4	682.3
7.5°	682.3	679.1	681.3	681.3	680.2
10°	677.0	673.8	676.0	677.0	677.0
12.5°	669.6	667.4	670.6	670.6	671.7
15°	661.1	658.9	663.2	665.3	665.3
17.5°	651.5	650.4	655.7	656.8	657.9
20°	640.8	639.8	646.1	646.1	648.3
22.5°	628.1	627.0	635.5	635.5	637.6
25°	614.2	613.1	622.7	624.9	625.9
27.5°	599.3	598.2	607.8	611.0	613.1
30°	582.3	582.3	592.9	597.2	600.4
32.5°	563.1	566.3	575.9	582.3	586.5
35°	545.0	549.3	559.9	567.4	572.7
37.5°	524.8	529.1	540.8	550.3	556.7
40°	503.5	508.8	522.7	533.3	542.9
42.5°	482.2	487.5	502.4	518.4	531.2
45°	457.7	465.2	481.2	503.5	518.4
47.5°	433.2	440.7	460.9	488.6	503.5
50°	407.7	416.2	440.7	472.6	488.6
52.5°	381.1	390.7	421.5	455.6	471.6
55°	353.4	365.1	400.3	436.4	453.5
57.5°	324.7	337.4	379.0	417.3	435.4
60°	294.9	310.8	356.6	397.1	416.2
62.5°	264.0	283.2	334.3	375.8	396.0
65°	232.1	254.4	310.8	354.5	374.7
67.5°	199.1	228.9	287.4	333.2	353.4
70°	166.1	201.2	262.9	309.8	330.0
72.5°	135.2	175.6	238.4	282.1	286.3
75°	105.4	150.1	212.9	217.2	209.7
77.5°	78.8	124.5	175.6	156.5	155.4
80°	56.4	100.1	112.8	116.0	117.1
82.5°	37.3	75.6	73.5	75.6	74.5
85°	22.4	37.3	38.3	37.3	35.1
87.5°	10.6	13.8	10.6	9.6	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)