

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: P263887

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263887
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-LD5-40SE-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2407.0 lumens
Efficiency: N/A
Efficacy: 78.9 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

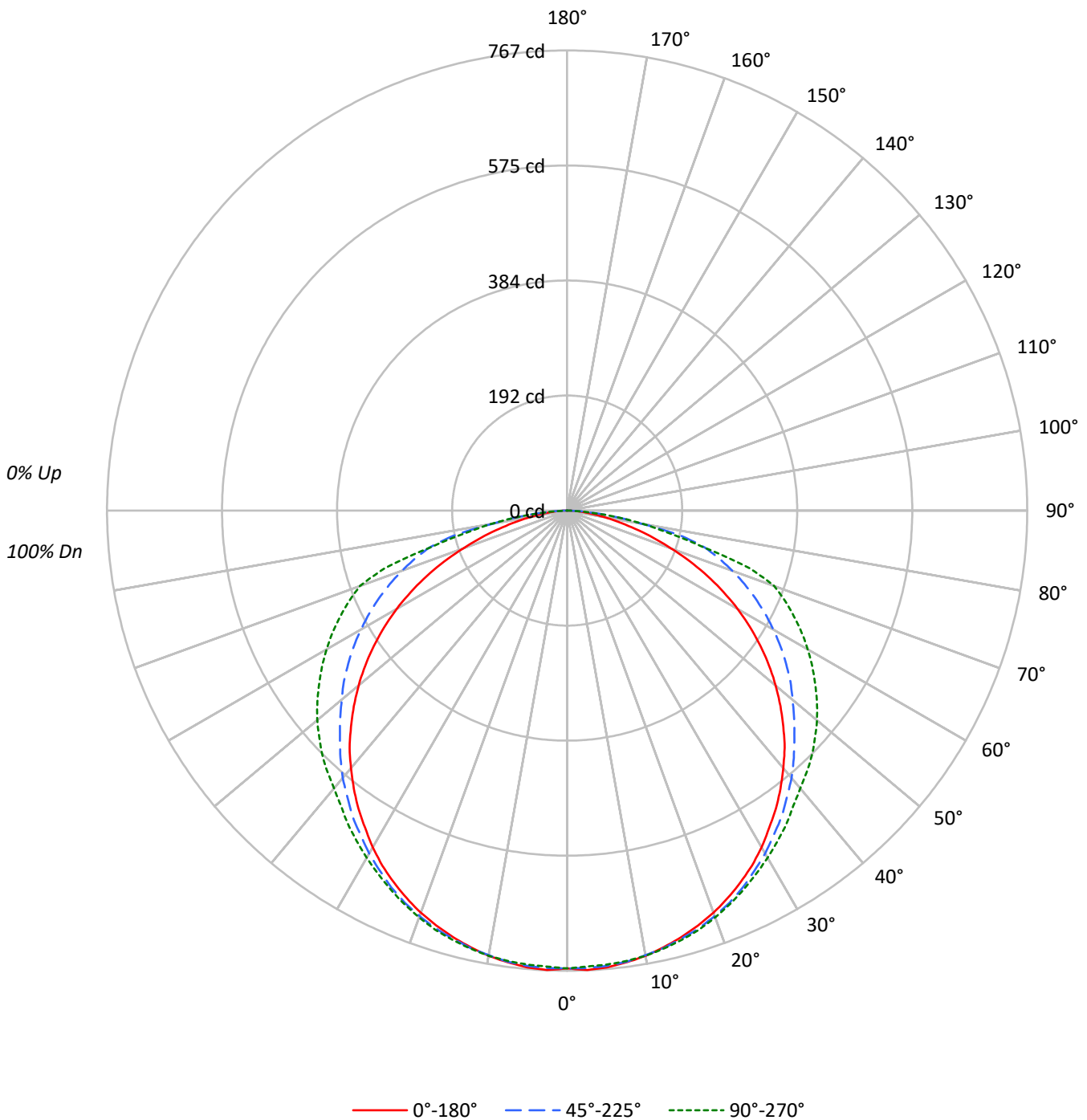
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1027	1027	1027
5°	1032	1029	1026
10°	1030	1028	1030
15°	1025	1028	1031
20°	1021	1030	1033
25°	1015	1029	1034
30°	1007	1025	1038
35°	996	1024	1047
40°	984	1022	1061
45°	969	1019	1098
50°	950	1027	1138
55°	923	1045	1184
60°	883	1068	1247
65°	822	1102	1328
70°	727	1151	1445
75°	610	1232	1213
80°	487	973	1010
85°	384	659	604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	3.0
10°-20°	208.3	8.7
20°-30°	318.1	13.2
30°-40°	388.9	16.2
40°-50°	416.3	17.3
50°-60°	399.3	16.6
60°-70°	337.2	14.0
70°-80°	215.5	9.0
80°-90°	51.0	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°	598.8	24.9
0°-40°	987.7	41.0
0°-60°	1803.4	74.9
0°-90°	2407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	764	760	762	761	760	73
15°	736	733	738	740	740	208
25°	684	682	693	696	697	315
35°	607	611	623	632	637	379
45°	510	518	536	560	577	393
55°	393	406	446	486	505	351
65°	258	283	346	395	417	255
75°	117	167	237	242	233	126
85°	25	42	43	42	39	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.0	763.0	763.0	763.0	763.0
2.5°	766.6	761.9	763.0	763.0	760.7
5°	764.2	759.5	761.9	760.7	759.5
7.5°	759.5	755.9	758.3	758.3	757.1
10°	753.6	750.0	752.4	753.6	753.6
12.5°	745.3	742.9	746.5	746.5	747.6
15°	735.8	733.4	738.2	740.5	740.5
17.5°	725.1	723.9	729.9	731.0	732.2
20°	713.3	712.1	719.2	719.2	721.6
22.5°	699.1	697.9	707.4	707.4	709.7
25°	683.7	682.5	693.1	695.5	696.7
27.5°	667.1	665.9	676.5	680.1	682.5
30°	648.1	648.1	660.0	664.7	668.3
32.5°	626.8	630.3	641.0	648.1	652.8
35°	606.6	611.4	623.2	631.5	637.4
37.5°	584.1	588.9	601.9	612.6	619.7
40°	560.4	566.4	581.8	593.6	604.3
42.5°	536.7	542.7	559.2	577.0	591.2
45°	509.5	517.8	535.5	560.4	577.0
47.5°	482.2	490.5	513.0	543.8	560.4
50°	453.8	463.3	490.5	526.1	543.8
52.5°	424.2	434.8	469.2	507.1	524.9
55°	393.4	406.4	445.5	485.8	504.7
57.5°	361.4	375.6	421.8	464.5	484.6
60°	328.2	346.0	396.9	441.9	463.3
62.5°	293.8	315.2	372.0	418.2	440.8
65°	258.3	283.2	346.0	394.6	417.1
67.5°	221.6	254.7	319.9	370.9	393.4
70°	184.8	223.9	292.7	344.8	367.3
72.5°	150.5	195.5	265.4	314.0	318.7
75°	117.3	167.1	237.0	241.7	233.4
77.5°	87.7	138.6	195.5	174.2	173.0
80°	62.8	111.4	125.6	129.1	130.3
82.5°	41.5	84.1	81.8	84.1	82.9
85°	24.9	41.5	42.7	41.5	39.1
87.5°	11.8	15.4	11.8	10.7	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)