

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: P263628

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263628
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-L93050-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: 2391.3 lumens
Efficiency: N/A
Efficacy: 77.2 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

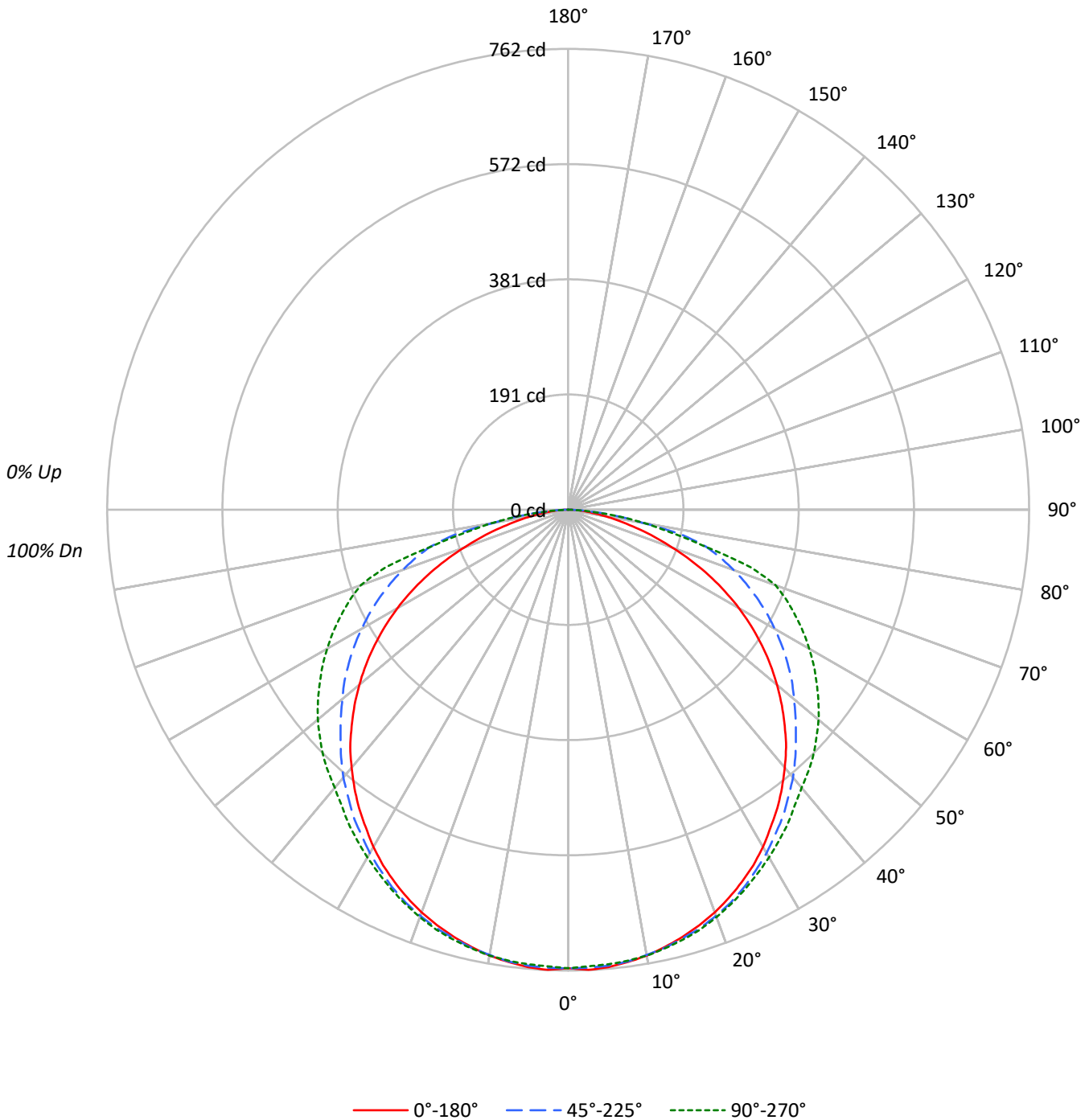
Input Watts (W): 30.988809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	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°	1020	1020	1020
5°	1026	1022	1019
10°	1023	1021	1023
15°	1018	1022	1025
20°	1015	1023	1026
25°	1008	1022	1028
30°	1000	1019	1031
35°	990	1017	1040
40°	978	1015	1054
45°	963	1012	1091
50°	944	1020	1131
55°	917	1038	1176
60°	878	1061	1239
65°	817	1094	1319
70°	722	1144	1435
75°	606	1224	1206
80°	483	967	1003
85°	381	655	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	3.0
10°-20°	206.9	8.7
20°-30°	316.1	13.2
30°-40°	386.4	16.2
40°-50°	413.6	17.3
50°-60°	396.7	16.6
60°-70°	335.0	14.0
70°-80°	214.1	9.0
80°-90°	50.6	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°	594.9	24.9
0°-40°	981.3	41.0
0°-60°	1791.7	74.9
0°-90°	2391.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2391.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	759	754	757	756	754	72
15°	731	729	733	736	736	206
25°	679	678	689	691	692	313
35°	603	607	619	627	633	377
45°	506	514	532	557	573	390
55°	391	404	443	483	502	349
65°	257	281	344	392	414	253
75°	116	166	235	240	232	125
85°	25	41	42	41	39	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.1	758.1	758.1	758.1	758.1
2.5°	761.6	756.9	758.1	758.1	755.7
5°	759.3	754.5	756.9	755.7	754.5
7.5°	754.5	751.0	753.4	753.4	752.2
10°	748.7	745.1	747.5	748.7	748.7
12.5°	740.4	738.1	741.6	741.6	742.8
15°	731.0	728.7	733.4	735.7	735.7
17.5°	720.4	719.2	725.1	726.3	727.5
20°	708.6	707.5	714.5	714.5	716.9
22.5°	694.5	693.3	702.8	702.8	705.1
25°	679.2	678.0	688.6	691.0	692.2
27.5°	662.7	661.6	672.1	675.7	678.0
30°	643.9	643.9	655.7	660.4	663.9
32.5°	622.7	626.2	636.8	643.9	648.6
35°	602.7	607.4	619.2	627.4	633.3
37.5°	580.3	585.0	598.0	608.6	615.6
40°	556.8	562.7	578.0	589.7	600.3
42.5°	533.2	539.1	555.6	573.3	587.4
45°	506.2	514.4	532.1	556.8	573.3
47.5°	479.1	487.3	509.7	540.3	556.8
50°	450.8	460.3	487.3	522.7	540.3
52.5°	421.4	432.0	466.1	503.8	521.5
55°	390.8	403.8	442.6	482.6	501.5
57.5°	359.0	373.2	419.1	461.4	481.5
60°	326.1	343.7	394.3	439.1	460.3
62.5°	291.9	313.1	369.6	415.5	437.9
65°	256.6	281.3	343.7	392.0	414.4
67.5°	220.1	253.1	317.8	368.4	390.8
70°	183.6	222.5	290.8	342.5	364.9
72.5°	149.5	194.2	263.7	311.9	316.7
75°	116.5	166.0	235.4	240.1	231.9
77.5°	87.1	137.7	194.2	173.0	171.9
80°	62.4	110.7	124.8	128.3	129.5
82.5°	41.2	83.6	81.2	83.6	82.4
85°	24.7	41.2	42.4	41.2	38.8
87.5°	11.8	15.3	11.8	10.6	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)