

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: P230469

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230469
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-L935-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2247.5 lumens
Efficiency: N/A
Efficacy: 77.4 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

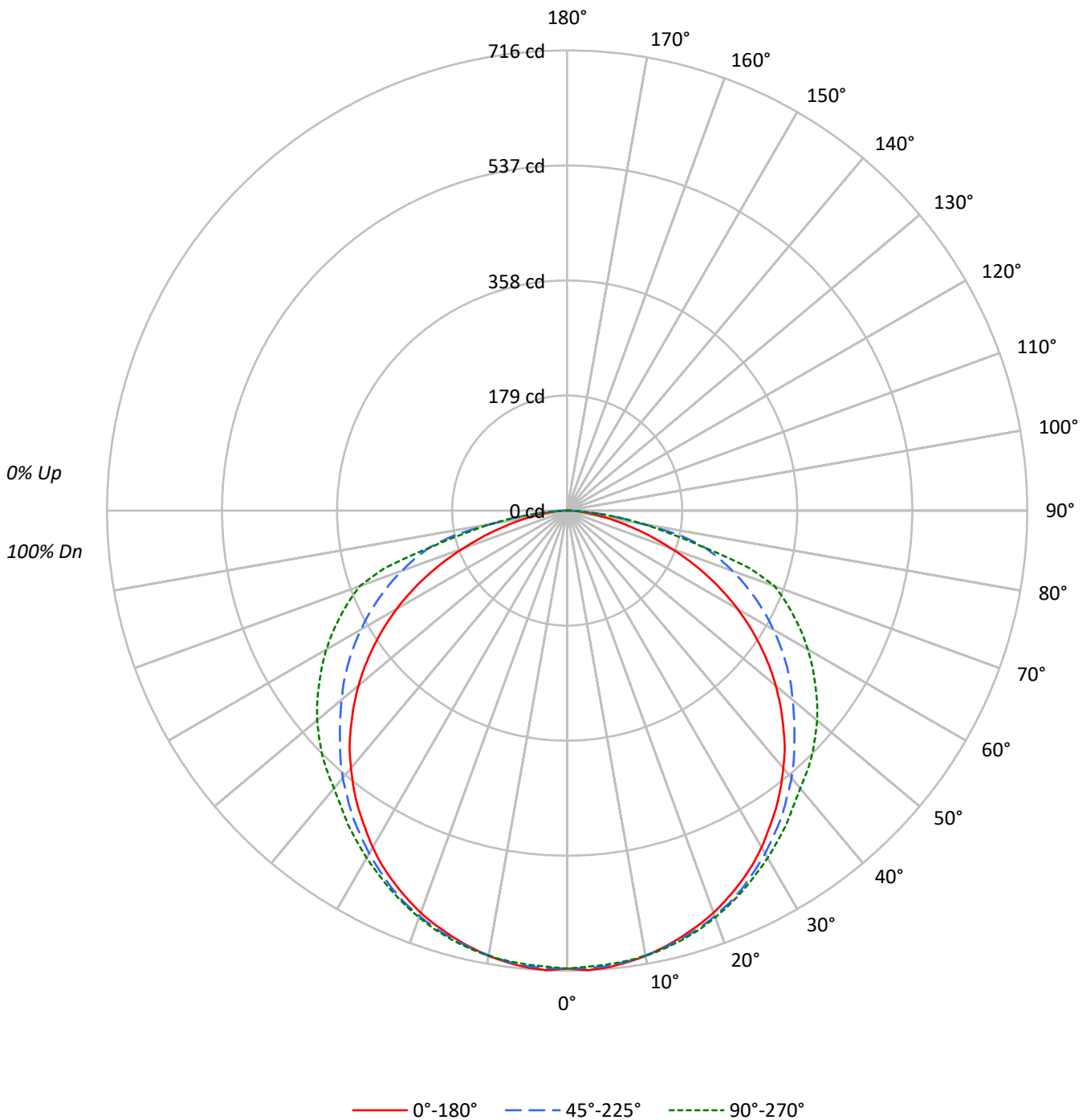
Input Watts (W): 29.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	959	959	959
5°	964	961	958
10°	961	960	961
15°	957	960	963
20°	954	961	965
25°	948	961	966
30°	940	957	969
35°	930	956	978
40°	919	954	991
45°	905	952	1025
50°	887	959	1063
55°	862	976	1106
60°	825	997	1164
65°	768	1028	1240
70°	679	1075	1349
75°	569	1150	1133
80°	454	909	943
85°	358	614	563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.0
10°-20°	194.5	8.7
20°-30°	297.0	13.2
30°-40°	363.2	16.2
40°-50°	388.7	17.3
50°-60°	372.9	16.6
60°-70°	314.8	14.0
70°-80°	201.2	9.0
80°-90°	47.6	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°	559.1	24.9
0°-40°	922.3	41.0
0°-60°	1683.9	74.9
0°-90°	2247.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2247.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	714	709	711	710	709	68
15°	687	685	689	691	691	194
25°	638	637	647	649	650	294
35°	566	571	582	590	595	354
45°	476	484	500	523	539	367
55°	367	380	416	454	471	328
65°	241	264	323	368	389	238
75°	110	156	221	226	218	118
85°	23	39	40	39	36	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	712.5	712.5	712.5	712.5	712.5
2.5°	715.8	711.4	712.5	712.5	710.3
5°	713.6	709.1	711.4	710.3	709.1
7.5°	709.1	705.8	708.0	708.0	706.9
10°	703.6	700.3	702.5	703.6	703.6
12.5°	695.9	693.7	697.0	697.0	698.1
15°	687.0	684.8	689.2	691.4	691.4
17.5°	677.1	676.0	681.5	682.6	683.7
20°	666.0	664.9	671.5	671.5	673.7
22.5°	652.7	651.6	660.5	660.5	662.7
25°	638.3	637.2	647.2	649.4	650.5
27.5°	622.9	621.7	631.7	635.0	637.2
30°	605.2	605.2	616.2	620.6	624.0
32.5°	585.2	588.6	598.5	605.2	609.6
35°	566.4	570.9	581.9	589.7	595.2
37.5°	545.4	549.8	562.0	572.0	578.6
40°	523.3	528.8	543.2	554.3	564.2
42.5°	501.2	506.7	522.2	538.8	552.0
45°	475.7	483.5	500.1	523.3	538.8
47.5°	450.3	458.0	479.0	507.8	523.3
50°	423.7	432.6	458.0	491.2	507.8
52.5°	396.1	406.0	438.1	473.5	490.1
55°	367.3	379.5	416.0	453.6	471.3
57.5°	337.4	350.7	393.8	433.7	452.5
60°	306.4	323.0	370.6	412.7	432.6
62.5°	274.4	294.3	347.4	390.5	411.5
65°	241.2	264.4	323.0	368.4	389.4
67.5°	206.9	237.9	298.7	346.3	367.3
70°	172.6	209.1	273.3	321.9	343.0
72.5°	140.5	182.5	247.8	293.2	297.6
75°	109.5	156.0	221.3	225.7	217.9
77.5°	81.9	129.4	182.5	162.6	161.5
80°	58.6	104.0	117.3	120.6	121.7
82.5°	38.7	78.5	76.3	78.5	77.4
85°	23.2	38.7	39.8	38.7	36.5
87.5°	11.1	14.4	11.1	10.0	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)