

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: P230525

Luminaire Tested: **24CZ-LD5-60SE-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230525
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-LD5-60SE-RDP-UNV-L935-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3379.4 lumens
Efficiency: N/A
Efficacy: 56.3 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

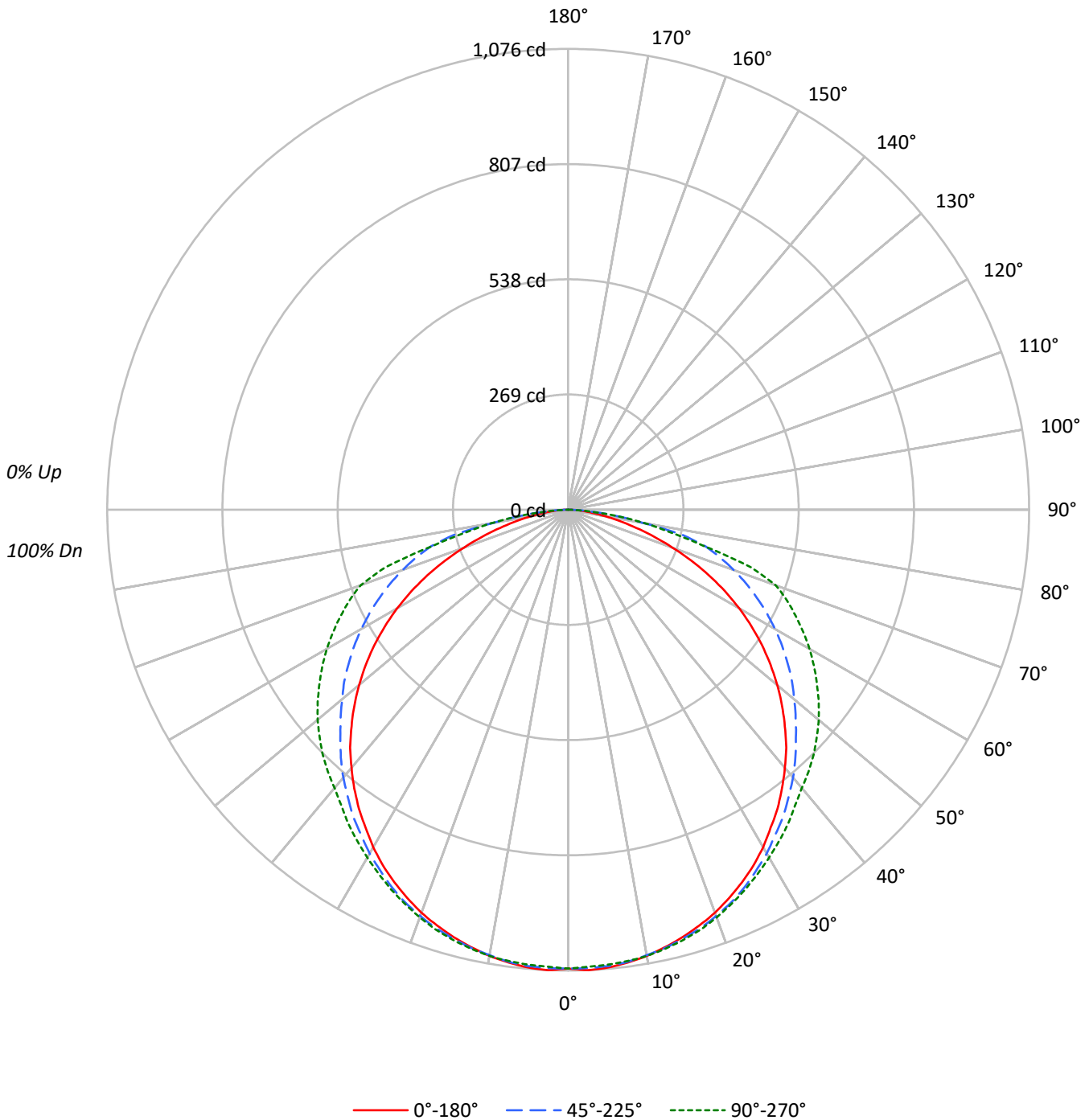
Input Watts (W): 60
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82	82	
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67	67	
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56	56	
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47	47	
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41	41	
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35	35	
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31	31	
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27	27	
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25	25	
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22	22	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1441	1441	1441
5°	1449	1445	1440
10°	1445	1443	1445
15°	1439	1444	1448
20°	1434	1446	1451
25°	1425	1445	1452
30°	1414	1440	1458
35°	1399	1437	1470
40°	1382	1435	1490
45°	1361	1431	1541
50°	1334	1442	1598
55°	1296	1467	1662
60°	1240	1500	1750
65°	1154	1546	1864
70°	1021	1616	2029
75°	856	1730	1704
80°	683	1366	1418
85°	539	925	848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	3.0
10°-20°	292.4	8.7
20°-30°	446.7	13.2
30°-40°	546.1	16.2
40°-50°	584.5	17.3
50°-60°	560.7	16.6
60°-70°	473.4	14.0
70°-80°	302.5	9.0
80°-90°	71.5	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°	840.7	24.9
0°-40°	1386.8	41.0
0°-60°	2531.9	74.9
0°-90°	3379.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3379.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1073	1066	1070	1068	1066	102
15°	1033	1030	1036	1040	1040	292
25°	960	958	973	976	978	442
35°	852	858	875	887	895	533
45°	715	727	752	787	810	552
55°	552	571	626	682	709	493
65°	363	398	486	554	586	358
75°	165	235	333	339	328	177
85°	35	58	60	58	55	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.3	1071.3	1071.3	1071.3	1071.3
2.5°	1076.3	1069.6	1071.3	1071.3	1068.0
5°	1073.0	1066.3	1069.6	1068.0	1066.3
7.5°	1066.3	1061.3	1064.7	1064.7	1063.0
10°	1058.0	1053.0	1056.3	1058.0	1058.0
12.5°	1046.4	1043.0	1048.0	1048.0	1049.7
15°	1033.0	1029.7	1036.4	1039.7	1039.7
17.5°	1018.1	1016.4	1024.7	1026.4	1028.1
20°	1001.4	999.8	1009.8	1009.8	1013.1
22.5°	981.5	979.8	993.1	993.1	996.4
25°	959.8	958.2	973.2	976.5	978.1
27.5°	936.6	934.9	949.9	954.9	958.2
30°	909.9	909.9	926.6	933.2	938.2
32.5°	880.0	885.0	900.0	909.9	916.6
35°	851.7	858.4	875.0	886.7	895.0
37.5°	820.1	826.8	845.1	860.0	870.0
40°	786.8	795.2	816.8	833.4	848.4
42.5°	753.6	761.9	785.2	810.1	830.1
45°	715.3	727.0	751.9	786.8	810.1
47.5°	677.1	688.7	720.3	763.6	786.8
50°	637.1	650.4	688.7	738.6	763.6
52.5°	595.5	610.5	658.8	712.0	736.9
55°	552.3	570.6	625.5	682.0	708.7
57.5°	507.4	527.3	592.2	652.1	680.4
60°	460.8	485.7	557.3	620.5	650.4
62.5°	412.6	442.5	522.3	587.2	618.8
65°	362.6	397.6	485.7	554.0	585.6
67.5°	311.1	357.7	449.1	520.7	552.3
70°	259.5	314.4	410.9	484.1	515.7
72.5°	211.3	274.5	372.6	440.8	447.5
75°	164.7	234.6	332.7	339.4	327.7
77.5°	123.1	194.6	274.5	244.5	242.9
80°	88.2	156.4	176.3	181.3	183.0
82.5°	58.2	118.1	114.8	118.1	116.4
85°	34.9	58.2	59.9	58.2	54.9
87.5°	16.6	21.6	16.6	15.0	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)