

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: P230524

Luminaire Tested: **24CZ-LD5-60SE-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230524
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-L930-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3251.7 lumens
Efficiency: N/A
Efficacy: 54.2 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

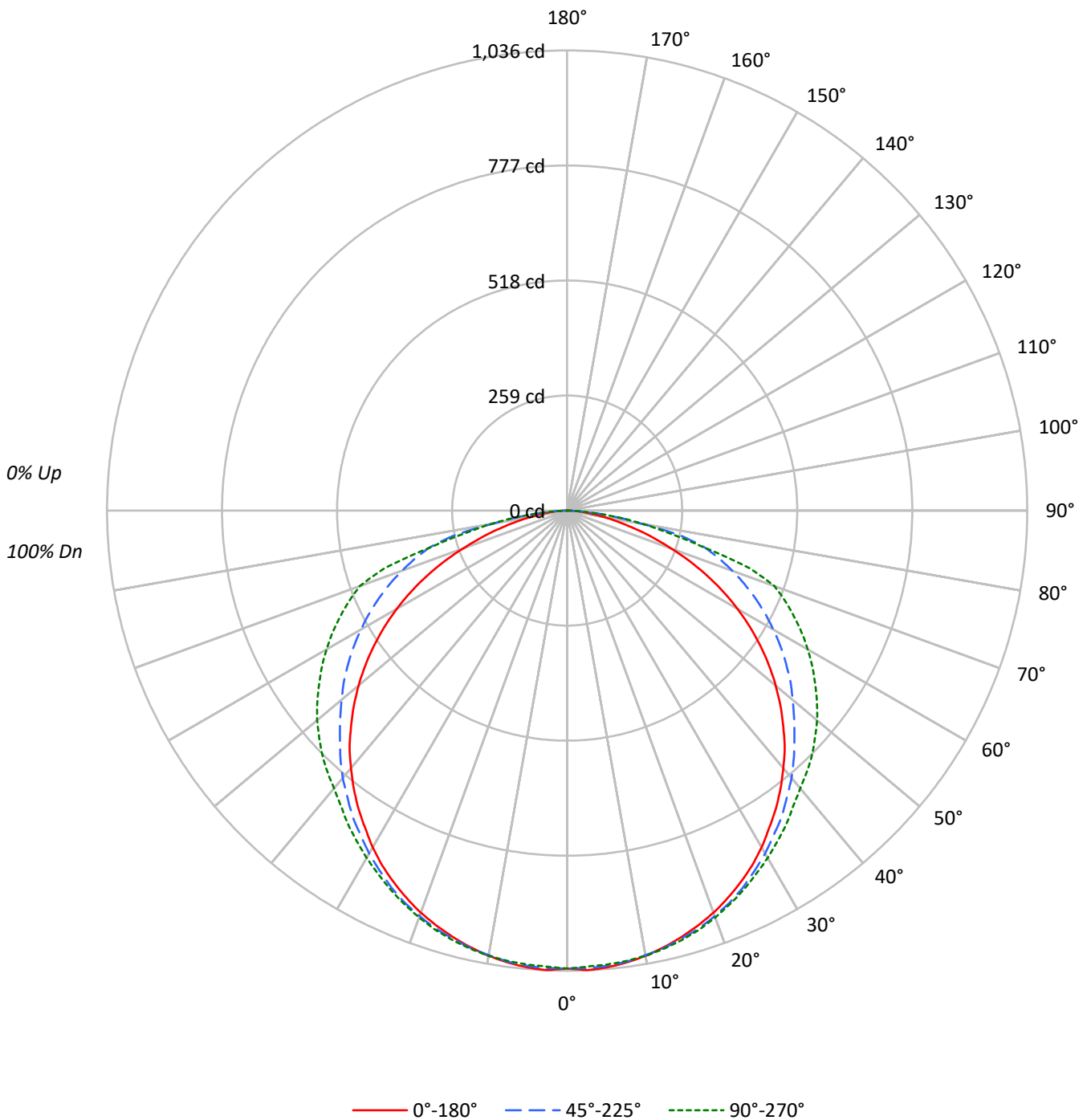
Input Watts (W): 60
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
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°	1387	1387	1387
5°	1394	1390	1386
10°	1391	1389	1391
15°	1385	1389	1394
20°	1380	1391	1396
25°	1371	1390	1397
30°	1360	1385	1403
35°	1346	1383	1414
40°	1330	1380	1434
45°	1310	1377	1483
50°	1283	1387	1538
55°	1247	1412	1600
60°	1193	1443	1684
65°	1111	1488	1794
70°	982	1555	1952
75°	824	1664	1639
80°	657	1315	1364
85°	519	889	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	3.0
10°-20°	281.4	8.7
20°-30°	429.8	13.2
30°-40°	525.4	16.2
40°-50°	562.4	17.3
50°-60°	539.5	16.6
60°-70°	455.5	14.0
70°-80°	291.1	9.0
80°-90°	68.8	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°	808.9	24.9
0°-40°	1334.4	41.0
0°-60°	2436.2	74.9
0°-90°	3251.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3251.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1032	1026	1029	1028	1026	98
15°	994	991	997	1000	1000	281
25°	924	922	936	940	941	426
35°	820	826	842	853	861	512
45°	688	700	724	757	780	531
55°	531	549	602	656	682	474
65°	349	383	467	533	563	344
75°	158	226	320	326	315	171
85°	34	56	58	56	53	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.8	1030.8	1030.8	1030.8	1030.8
2.5°	1035.6	1029.2	1030.8	1030.8	1027.6
5°	1032.4	1026.0	1029.2	1027.6	1026.0
7.5°	1026.0	1021.2	1024.4	1024.4	1022.8
10°	1018.0	1013.2	1016.4	1018.0	1018.0
12.5°	1006.8	1003.6	1008.4	1008.4	1010.0
15°	994.0	990.8	997.2	1000.4	1000.4
17.5°	979.6	978.0	986.0	987.6	989.2
20°	963.6	962.0	971.6	971.6	974.8
22.5°	944.4	942.8	955.6	955.6	958.8
25°	923.6	922.0	936.4	939.6	941.2
27.5°	901.2	899.6	914.0	918.8	922.0
30°	875.5	875.5	891.6	898.0	902.8
32.5°	846.7	851.5	865.9	875.5	881.9
35°	819.5	825.9	841.9	853.1	861.1
37.5°	789.1	795.5	813.1	827.5	837.1
40°	757.1	765.1	785.9	801.9	816.3
42.5°	725.1	733.1	755.5	779.5	798.7
45°	688.3	699.5	723.5	757.1	779.5
47.5°	651.5	662.7	693.1	734.7	757.1
50°	613.0	625.8	662.7	710.7	734.7
52.5°	573.0	587.4	633.9	685.1	709.1
55°	531.4	549.0	601.8	656.3	681.9
57.5°	488.2	507.4	569.8	627.4	654.7
60°	443.4	467.4	536.2	597.0	625.8
62.5°	397.0	425.8	502.6	565.0	595.4
65°	348.9	382.6	467.4	533.0	563.4
67.5°	299.3	344.1	432.2	501.0	531.4
70°	249.7	302.5	395.4	465.8	496.2
72.5°	203.3	264.1	358.5	424.2	430.6
75°	158.5	225.7	320.1	326.5	315.3
77.5°	118.4	187.3	264.1	235.3	233.7
80°	84.8	150.5	169.7	174.5	176.1
82.5°	56.0	113.6	110.4	113.6	112.0
85°	33.6	56.0	57.6	56.0	52.8
87.5°	16.0	20.8	16.0	14.4	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)