

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: P230479

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230479
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-LD5-50-RDP-UNV-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3152.9 lumens
Efficiency: N/A
Efficacy: 77.5 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

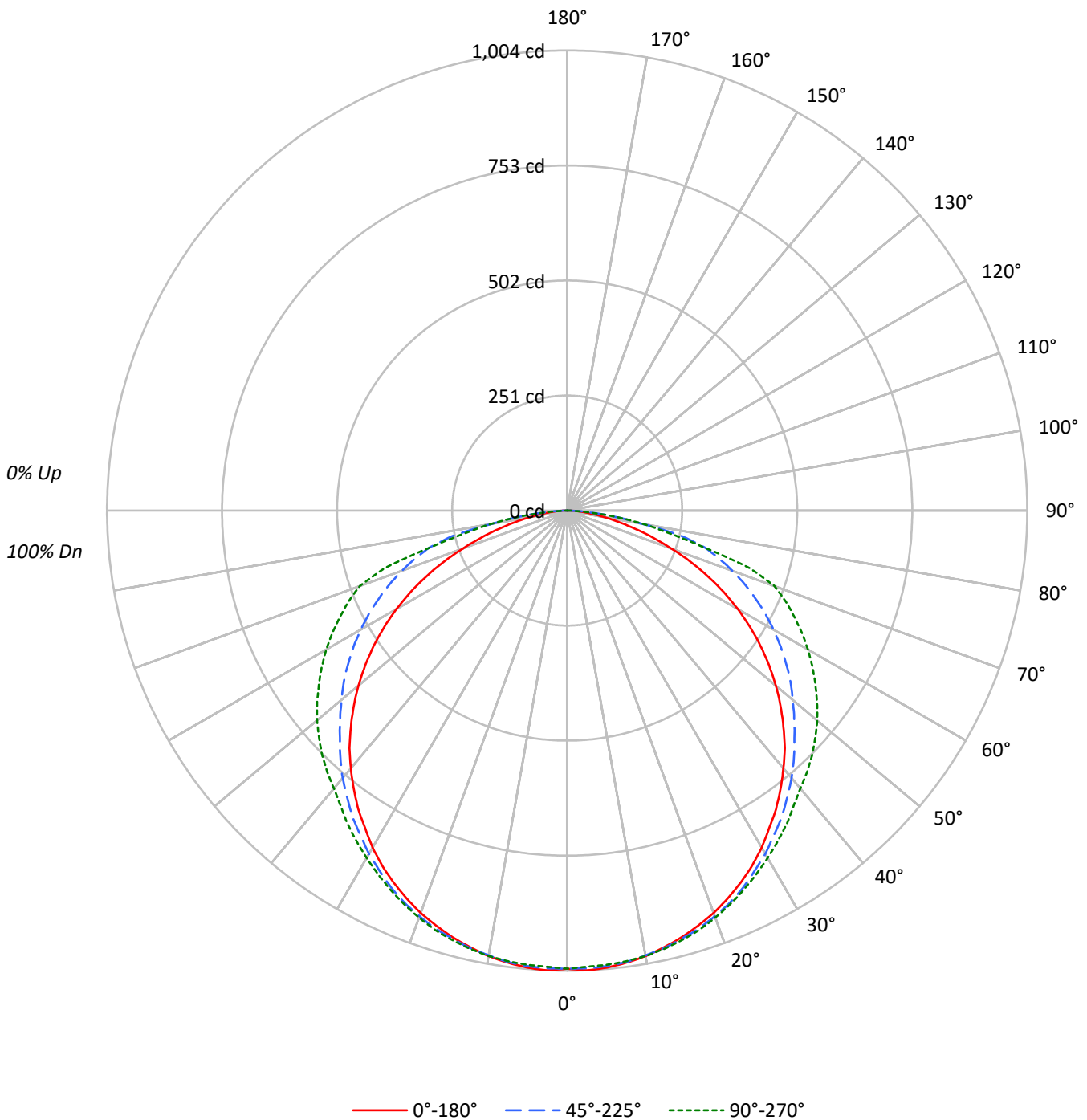
Input Watts (W): 40.68
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1345	1345	1345
5°	1352	1348	1344
10°	1349	1346	1349
15°	1343	1347	1351
20°	1338	1349	1353
25°	1329	1348	1355
30°	1319	1343	1360
35°	1305	1341	1372
40°	1289	1338	1390
45°	1270	1335	1438
50°	1244	1345	1491
55°	1209	1369	1551
60°	1157	1399	1633
65°	1077	1443	1739
70°	952	1508	1893
75°	799	1614	1589
80°	638	1275	1323
85°	503	863	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	3.0
10°-20°	272.8	8.7
20°-30°	416.7	13.2
30°-40°	509.5	16.2
40°-50°	545.3	17.3
50°-60°	523.1	16.6
60°-70°	441.6	14.0
70°-80°	282.3	9.0
80°-90°	66.8	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°	784.4	24.9
0°-40°	1293.8	41.0
0°-60°	2362.2	74.9
0°-90°	3152.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3152.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	1001	995	998	996	995	95
15°	964	961	967	970	970	272
25°	896	894	908	911	913	413
35°	795	801	816	827	835	497
45°	667	678	702	734	756	515
55°	515	532	584	636	661	460
65°	338	371	453	517	546	334
75°	154	219	310	317	306	165
85°	33	54	56	54	51	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.5	999.5	999.5	999.5	999.5
2.5°	1004.2	997.9	999.5	999.5	996.4
5°	1001.0	994.8	997.9	996.4	994.8
7.5°	994.8	990.2	993.3	993.3	991.7
10°	987.1	982.4	985.5	987.1	987.1
12.5°	976.2	973.1	977.8	977.8	979.3
15°	963.8	960.7	966.9	970.0	970.0
17.5°	949.8	948.3	956.0	957.6	959.1
20°	934.3	932.8	942.1	942.1	945.2
22.5°	915.7	914.1	926.6	926.6	929.7
25°	895.5	894.0	907.9	911.0	912.6
27.5°	873.8	872.2	886.2	890.9	894.0
30°	848.9	848.9	864.5	870.7	875.3
32.5°	821.0	825.7	839.6	848.9	855.2
35°	794.6	800.8	816.4	827.2	835.0
37.5°	765.1	771.3	788.4	802.4	811.7
40°	734.1	741.9	762.0	777.6	791.5
42.5°	703.1	710.8	732.5	755.8	774.5
45°	667.4	678.2	701.5	734.1	755.8
47.5°	631.7	642.5	672.0	712.4	734.1
50°	594.4	606.8	642.5	689.1	712.4
52.5°	555.6	569.6	614.6	664.3	687.5
55°	515.3	532.3	583.6	636.3	661.2
57.5°	473.4	492.0	552.5	608.4	634.8
60°	429.9	453.2	519.9	578.9	606.8
62.5°	384.9	412.8	487.3	547.9	577.3
65°	338.3	370.9	453.2	516.8	546.3
67.5°	290.2	333.7	419.0	485.8	515.3
70°	242.1	293.3	383.3	451.6	481.1
72.5°	197.1	256.1	347.7	411.3	417.5
75°	153.6	218.8	310.4	316.6	305.7
77.5°	114.8	181.6	256.1	228.1	226.6
80°	82.3	145.9	164.5	169.2	170.7
82.5°	54.3	110.2	107.1	110.2	108.6
85°	32.6	54.3	55.9	54.3	51.2
87.5°	15.5	20.2	15.5	14.0	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)